

CODING FOR KIDS

[Duration: 10 Hours]

Uses Scratch, Python or Java
Greenfoot

sequence: identifying a series of steps
`class="my_Class"` for a task

span: running the same sequence multiple times

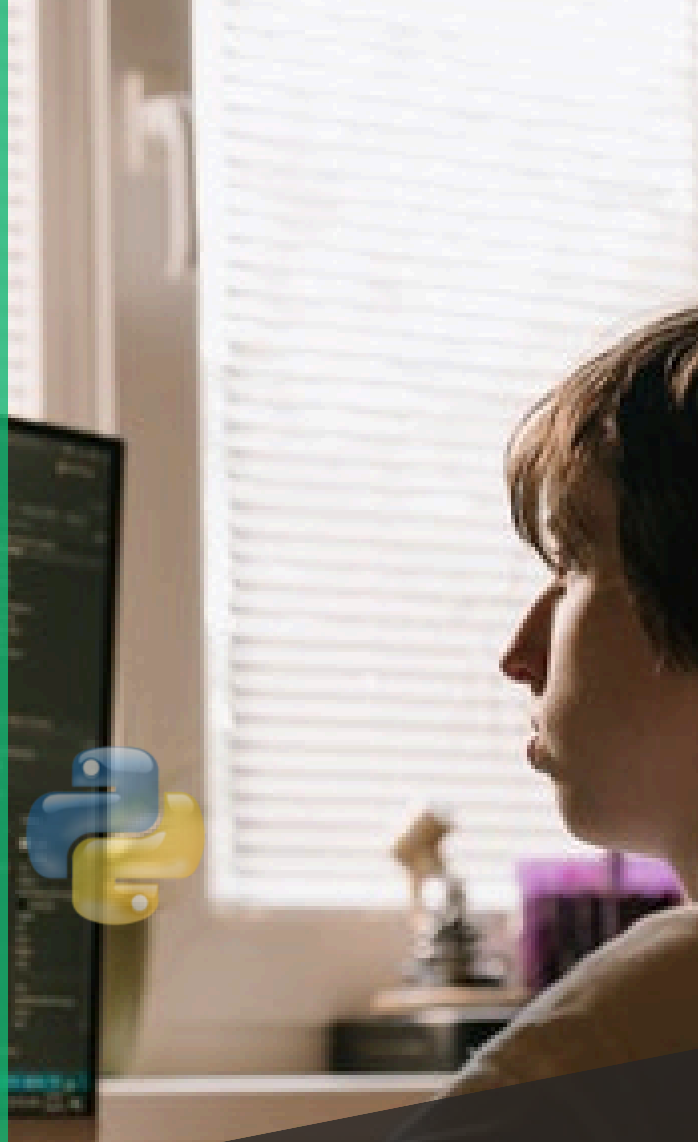
parallelism: making things happen at the same time

events: one thing causing another thing to happen

conditional statements: making decisions based on conditions

operators: support for mathematical and logical expressions

All about data: storing, retrieving, and updating values



ABOUT

Scratch is a high-level block-based visual programming language and website targeted primarily at children 8-16 as an educational tool for coding. Users on the site, called Scratchers, can create projects on the web using a block-like interface.

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Full Payment before commencement (no payment plan)

ROBOTICS FOR KIDS

[Duration: 10 Hours]

Uses Scratch or Python for
Robomaster S1

sequence: identifying a series of steps
`class="my_Class"` for a task

span: running the same sequence multiple times

parallelism: making things happen at the same time

events: one thing causing another thing to happen

conditional statements: making decisions based on conditions

operators: support for mathematical and logical expressions

All about data: storing, retrieving, and updating values



ABOUT

The RoboMaster S1 is a game-changing educational robot built to unlock the potential in every learner. Inspired by DJI's annual RoboMaster robotics competition, the S1 provides users with an in-depth understanding of science, math, physics, programming, and more through captivating gameplay modes and intelligent features.

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ENTRY-LEVEL PROGRAMMER

[Duration: 10 Hours]

Choose 1 programming language, i.e java or python or c++

Understand fundamental terms and definitions

Understand programming logic and structure

Introduce literals and variables into code and use different numeral systems

Choose operators and data types adequate to the problem

Perform Input/Output console operations

Control Flow - Conditional Blocks and Loops

iterations and Data Collections

+1 International exams
- additional in price



ABOUT

- aspiring programmers and learners interested in learning programming for fun and job-related tasks;
- learners looking to gain fundamental skills and knowledge for an entry-level job role as a software developer, data analyst, or tester;
- industry professionals wishing to explore technologies that are connected with Python, or that utilize it as a foundation;
- team leaders, product managers, and project managers who want to understand the terminology and processes in the software development cycle to more effectively manage and communicate with production and development teams.

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ASSOCIATE PROGRAMMER

[Duration: 20 Hours]

Choose 1 programming language, i.e java or python or c++

Modules and Packages

Exception Handling

Strings

Object Orientated Programming

List Comprehensions, Lambdas, Closures, and I/O Operations

Build complex lists using list comprehension

Embed lambda functions into the code

Define and use closures

Perform Input/Output operations

+2 International exams

- additional in price

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ABOUT

- **aspiring programmers** and learners interested in learning programming for fun and job-related tasks;
- **learners and career changers** seeking a junior-level job role as a software developer, data analyst, or tester.
- **industry professionals** wishing to explore technologies that are connected with Python, or that utilize it as a foundation;
- **aspiring programmers** and industry professionals looking to build a solid foundation for further studies in more specialized areas, such as testing, data analytics, machine learning, IoT, and web development;
- **team leaders, product managers, and project managers** who want to understand the terminology and processes in the software development cycle to more effectively manage and communicate with production and development teams.

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PRICE: R15 900 / \$1100 / €1000/ £800

Full Payment before commencement (no payment plan)

Prerequisite: Entry-Level Programmer

PROFESSIONAL PROGRAMMER

[Duration: 20 Hours]

Choose 1 programming language,
i.e java or python or c++

(Advanced OOP)

Advanced (Best Practices and Standardization)*

Advanced (GUI Programming)*

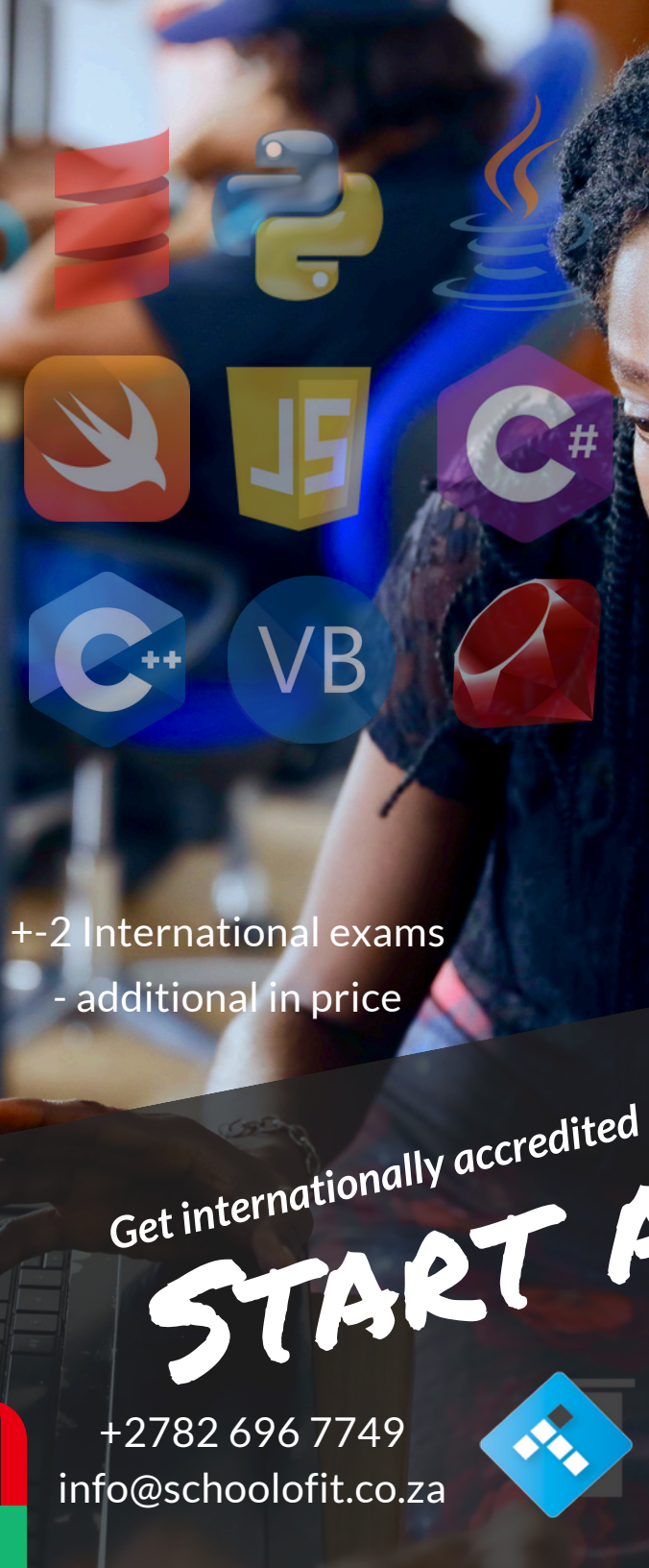
Advanced (Network Programming)*

Advanced (File Processing and Communicating with a Program's Environment)*

sqlite – interacting with SQLite databases

xml – creating and processing XML files;

csv – CSV file reading and writing



+2 International exams
- additional in price

ABOUT

- Learners looking to boost their skills and knowledge for a junior-level and middle-level role as a software developer, network programmer, data analyst, or tester;
- industry professionals wishing to explore technologies that are connected with Python, or that utilize it as a foundation;
- team leaders, product managers, and project managers who want gain an in-depth understanding of the terminology and processes in the software development cycle to more effectively manage and communicate with production, QA, and development teams.

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PRICE: R18 900 / \$1100 / €1000 / £900

Full Payment before commencement (no payment plan)

Prerequisite: Associate Programmer

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SOFTWARE DEVELOPMENT

[Duration: 40 Hours/
2 months]

Master 1 programming language
Intro to advanced programming

Classes, Objects, Variables,
Operators, Datatypes, Loops,
Decision Making, Error Handling,
Comments, Compiling, Naming
Standards

Test, Project, Database, SQL,
Querys, Connection types,
Lambda Inheritance,
Polymorphism, Encapsulation
Method Overriding, overloading,
IO - Reading & Writing to a file

Delegates, Event Handling,
Tasks, Threading, Multi-
Threading, Synchronizing,
Parsing, Tokenizing, Test,
Project

+4 International exams
- additional in price

ABOUT

Software development is the process of conceiving, specifying, designing, programming, documenting, testing, and bug fixing involved in creating and maintaining applications, frameworks, or other software components.

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Payment plan: [R14 400 per 20 hours]: 2 payments

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SOFTWARE ENGINEERING

[Duration: 80 Hours/
4 months]

Master 2 programming languages
Intro to advanced of each

- 20 HOURS
Intro language 1

- 20 HOURS
Advanced Programming

- 20 HOURS
Intro language 2

- 20 HOURS
Advanced Programming



+8 International exams
- additional in price

ABOUT

A software engineer is a person who applies the principles of software engineering to the design, development, maintenance, testing, and evaluation of computer software.

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PRICE: R43 600 / \$2400 / €2400/ £2000

Payment plan: [R10 900 per 20 hours]: 4 payments

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DATA SCIENCE ASSOCIATE

[Duration: 80 Hours/
4 months]

Microsoft Azure & Python or R or C#

- 20 HOURS

Intro to Python or R or c#
Variables, Datatypes, Decision making,
loops, methods, functions etc.

- 20 HOURS

Intermediate Python/R, Arrays, working
with PyCharm, Pandas, NumPy, Python
Libraries: Matplotlib.
SciKit Learn. NumPy. NLTK,

- 20 HOURS

Intro to SQL, syntax, procedures, database
design & implementation.

- 20 HOURS

Build AI solutions with Azure Machine
Learning, Train a machine learning model,
Working with Data, Compute Contexts,
Pipelines, Deploying models, Automate
machine learning model selection.

PRICE: R43 600 / \$2400 / €2400/ £2000

Payment plan: [R10 900 per 20 hours]: 4 payments

Prerequisite: Azure Data Fundamentals course



+5 International exams

- additional in price

ABOUT

Data science is an interdisciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from data in various forms, both structured and unstructured, similar to data mining.

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FRONT-END DEVELOPER

[Duration: 20 Hours/1 month]

intro to html, css, javascript, JQuery, Bootstrap and Vuejs or React

- Build a simple HTML text site
- Style web pages using CSS
- Program websites with JavaScript
- Javascript for beginners
- Using JQuery
- Build a site using Bootstrap
- Build and publish a Google Chrome Extension
- Use React or Vuejs to build a site

+3 International exams
- additional in price

ABOUT

A front-end developer builds the front-end portion of websites and web applications—that is, the part that users actually see and interact with. A front-end developer creates websites and applications using web languages such as HTML, CSS, and JavaScript allow users to access and interact with the site or app.

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BACK-END DEVELOPER

[Duration: 30 Hours / 1-2 months]

Python or Java or PHP, Django, SQLite3, Heroku, GIT

- Learn To Write Clean And Proper Python Code With Concept.
- Learn About 4 Pillars Of Object Oriented Programming!
- Learn How To Handle Error And Exceptions With Python
- Learn about Django Apps, Templates, Models & Migrations.
- Implement CRUD Functionality. (Create, Read, Update and Delete) on Applications
- Learn about MVT (Model, View Template) for Web apps
- Build rock solid foundation in Git and learn key-related concepts.
- Manage and Update files with Git (move, rename, delete)
- Learn GitHub and how to use and manage the web based Git repository.

+5 International exams
- additional in price

ABOUT

A Backend Developer is a software developer who specialises in building the software's server-side functions. They commonly work with programming languages like Python, C, PHP, Java and Ruby. Backend Developers work with the elements of software that are unseen by the end user.

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FULL STACK DEVELOPER

[Duration: 60 Hours / 3 months]

Python or Java or C#

MEAN, MERN, MEVN or Lamp Stack, HTML, CSS, JavaScript

- 20 HOURS

Python/Java/C#

Intro to python programming or intro to java programming or intro to c# programming

- 40 HOURS

MERN, MEAN, MEVN or LAMP Stack

MongoDB, Express, Angular or React or Vuejs, Nodejs, JavaScript, HTML & CSS



+6 International exams
- additional in price

ABOUT

Full Stack developers work with both the front and back end of a website. They're familiar with HTML, CSS, JavaScript, and one or more back end languages. .

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Payment plan: [R10 900 per 20 hours]: 3 payments

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WEB ENGINEERING

[Duration: 80 Hours/
4 months]

Intro - Advanced

- 40 HOURS

Intro - Advanced Python or Java or C#

Objects & Classes, Datatypes &
Variables, Decision Making, Arrays,
Loops, Error Handling, Inheritance,
Lambda, API's, Polymorphism, tkinter,
using python/c#/java for web design.

- 40 HOURS

MERN, MEAN, MEVN or LAMP Stack
MongoDB, Express, Angular or React or
VueJS, Nodejs, JavaScript, HTML, CSS,
Version Control - GIT



+8 International exams
- additional in price



ABOUT

Full Stack developers work with both the front and back end of a website. They're familiar with HTML, CSS, JavaScript, and one or more back end languages. .

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Get internationally accredited & recognized in under 6 months!

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PRICE: R43 600 / \$2400 / €2400 / £2000

Payment plan: [R10 900 per 20 hours]: 4 payments

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WEB & SOFTWARE ENGINEER MASTER

[Duration: 140 Hours / 7 months]

Intro - Advanced

Learn 3 stacks (MEAN, MERN & MEVN)

- 40 HOURS

Intro - Advanced Python or Java or C#
Objects & Classes, Datatypes & Variables,
Decision Making, Lambda, Arrays, Loops,
Error Handling, Inheritance,
Polymorphism, tkinter, using
python/c#/Java for web design. Pseudo
code, flowcharts & documentation.

- 100 HOURS

All 3 stacks: MERN, MEAN & MEVN Stack
MongoDB, Express, Angular, React,
JavaScript, Nodejs, Vuejs, HTML, CSS,
Django, SQL & PHP & Version Control-GIT



+8 International exams
- additional in price

ABOUT

The Master course teaches Software Engineering and frameworks. Learn how to manage the front and back ends of a websites, create software applications and manipulate data.

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PRICE: R76 300 / \$4900 / €4200/ £3500

Payment plan: [R10 900 per 20 hours]: 7 payments

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Limited space

SOFTWARE DEVELOPER MASTER

[Duration: 160 Hours / 8 months]

POSSIBLE INTERNATIONAL EXAMS*

All international exams are additional in price as depends on exchange rate when booked*



4 CODING LANGUAGES LEARNT - INTRO TO ADVANCED *



4 FRAMEWORKS LEARNT*



ABOUT

Master the 4 best coding languages. 4 best frameworks, plus you could gain 4 international certificates - you will be of a higher standard than most as you need 60 -75% to pass each international. In addition gain a internship with School of IT*

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INCLUDES AN INTERNSHIP WITH SCHOOL OF IT*

Get internationally accredited & recognized in under 12 months!
ACCEPTS ONLY 2 STUDENTS A YEAR

PRICE: R129 000/ \$9000 / €8000/ £7000
Payment plan: [R16 125 per 20 hours]: 8 payments

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APP DEVELOPMENT: ANDROID STUDIO & FIREBASE/JAVA

[Duration: 40 Hours/ 2
months

Uses Java/Firebase

Android System Architecture.
Operating environment
Support graphics & touch
interface

Service Location

Work with the Android
Location services API

Store data locally using SQLite
Using Firebase to send
realtime notifications

Create beautiful screen layout
s using the Constraint layout



+3 International exams
- additional in price

ABOUT

Use Android Studio and Java to write Android apps. You write Android apps in the Java programming language using an IDE called Android Studio. Based on JetBrains' IntelliJ IDEA software, Android Studio is an IDE designed specifically for Android development.

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PRICE: R28 800 / \$1800 / €1600/ £1500

Payment plan: [R14 400 per 20 hours]: 2 payments

Prerequisite: Intro Java course

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APP DEVELOPMENT: ANDROID STUDIO & KOTLIN

[Duration: 40 Hours/ 2
months

Uses Kotlin/Java

Android System Architecture.

Operating environment

Support graphics & touch
interface

Service Location

Work with the Android
Location services API

Store data locally using SQLite

Sending realtime
notifications

Create beautiful screen layout
s using the Constraint layout



Kotlin

+3 International exams
- additional in price

ABOUT

Kotlin is a statically typed programming language for Java Virtual Machine (JVM) and JavaScript. ... Kotlin also introduces improved syntax, as well as concise expressions and abstractions. Using Kotlin with Java reduces excessive boilerplate code, which is a huge win for Android developers.

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PRICE: R28 800 / \$1800 / €1600/ £1500

Payment plan: [R14 400 per 20 hours]: 2 payments

Prerequisite: Intro Java course

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APP DEVELOPMENT: REACT NATIVE

[Duration: 40 Hours/ 2
months

Uses JavaScript/Typescript

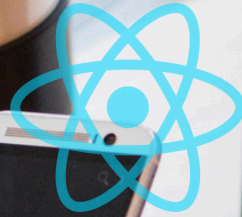
Introduces you to hybrid mobile
application development

React Native UI Elements and
Redux

React Native Alerts,
Animations, Gestures, and
Persist Redux Store

Accessing Native Capabilities
of Devices: The Expo SDK

How to test & publish your app



React

+3 International exams
- additional in price

ABOUT

React Native is an open-source framework that allows you to build a mobile app with only JavaScript. It was introduced by Jordan Walke, a Facebook software engineer, as a new technology for simpler development and a better user experience. ... But with React Native, building a mobile app is much faster and less expensive

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PRICE: R28 800 / \$1800 / €1600/ £1500

Payment plan: [R14 400 per 20 hours]: 2 payments

Prerequisite: Intro JavaScript course

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APP DEVELOPMENT: FLUTTER

[Duration: 40 Hours/ 2
months

Uses Dart

Understand the fundamentals of
the Flutter frameworks
Incorporate widgets and state
into your app

Use Flutter's tools to enhance
your development process

Customize your app with
Material Design, themes,
assets, & more

Make your app interactive with
text input, gestures, and more
Retrieve local & real-time data
from the web

+1 International exams
- additional in price

ABOUT

Flutter mobile application development is the real deal for scalable projects. Flutter applications are built using Dart – easy-to-learn object-oriented programming language. ... Most importantly, Dart code can run not only on iOS and Android but also used for desktop (Windows, Mac and Linux) and even web applications.

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Prerequisite: Intro Dart course

PRICE: R28 800 / \$1800 / €1600/ £1500

Payment plan: [R14 400 per 20 hours]: 2 payments

APP DEVELOPMENT: XAMARIN

[Duration: 40 Hours/ 2
months

Uses C# Language

Learn to write cross platform
UI code & structures, How to
build native applications

How to work on cross-
platforms & custom controls

How to work with Forms

XAML, data binding and
controls, and how to use them
effectively within your
Xamarin

Compile & run native builds

How to test & publish your app

+1 International exams
- additional in price

ABOUT

Xamarin is a highly popular open-
source framework for cross-platform
mobile development. A single
technology stack of Xamarin, C#
language and .NET framework,
together with reusing up to 95 percent
of the code, enables the quick and easy
creation of mobile apps for Android,
iOS and Windows operating systems.

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PRICE: R28 800 / \$1800 / €1600/ £1500

Payment plan: [R14 400 per 20 hours]: 2 payments

Prerequisite: Intro C# course

APP DEVELOPMENT: IONIC/CORDOVA

[Duration: 40 Hours/ 2
months

Uses JavaScript, Angular, HTML, CSS

Hybrid Mobile App
Development Frameworks: An
Introduction

Ionic Components

Ionic Split Pane, Grid &
Storage

, and Deploying your App

Accessing Native Capabilities
of Devices: Cordova and Ionic
Native

How to test & publish your app

+1 International exams
- additional in price

ABOUT

Ionic makes mobile development fun and fast, so you can build more! Ionic makes building cross-platform mobile apps enjoyable. ... Ionic dramatically changes the way mobile apps are built. Their integration with Angular means building functionality is now a breeze and it feels near-native.

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PRICE: R28 800 / \$1800 / €1600/ £1500

Payment plan: [R14 400 per 20 hours]: 2 payments

Prerequisite: Intro Web Design course

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APP DEVELOPMENT: IOS SWIFT PROGRAMMING

[Duration: 40 Hours/ 2
months

Uses swift programming

Basic functions of XCode and
other tools.

UIKit & the Interface Builder -
layouts & some user interface
elements.

User Interactivity

Multiple View Controllers &
Navigation

Persistence & Networking

How to test & publish your app



APP DEVELOPMENT WITH SWIFT LEVEL 1

+1 International exams
- additional in price

ABOUT

Swift by Apple is a ground-breaking programming language for iOS, watchOS, and OS X, which can help develop apps that run flawlessly. Swift ensures secure and safe coding. As, it easily eliminates all risky code classes and, ensures to create a protected environment to create a stable solution

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PRICE: R28 800 / \$1800 / €1600/ £1500
Payment plan: [R14 400 per 20 hours]: 2 payments

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Prerequisite: Intro Swift course

SOFTWARE TESTING: SELENIUM & PYTHON

[Duration: 40 Hours/ 2
months

Uses Python & Selenium

Complete knowledge on Python
Automation using Selenium
WebDriver

Understanding of Python Basics
with many examples

Understanding on Selenium
Python API Methods with real
time Scenarios

Implement Python Test
Automation Frameworks

Python Unit Test Frameworks
like PyTest which will helpful
for Unit and Integration
Testing

+3 International exams
- additional in price

ABOUT

Selenium is a portable framework for testing web applications. Selenium provides a playback tool for authoring functional tests without the need to learn a test scripting language

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PRICE: R28 800 / \$1800 / €1600/ £1500

Payment plan: [R14 400 per 20 hours]: 2 payments

Prerequisite: Intro Python course

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SOFTWARE TESTING: SELENIUM AND JAVA

[Duration: 40 Hours/ 2 months]

Uses Java & Selenium

Selenium Webdriver with strong Core JAVA basics

Automate all possible test cases & code quality standards

Web driver functions to automate & verify Data Integrity with the GUI of the application

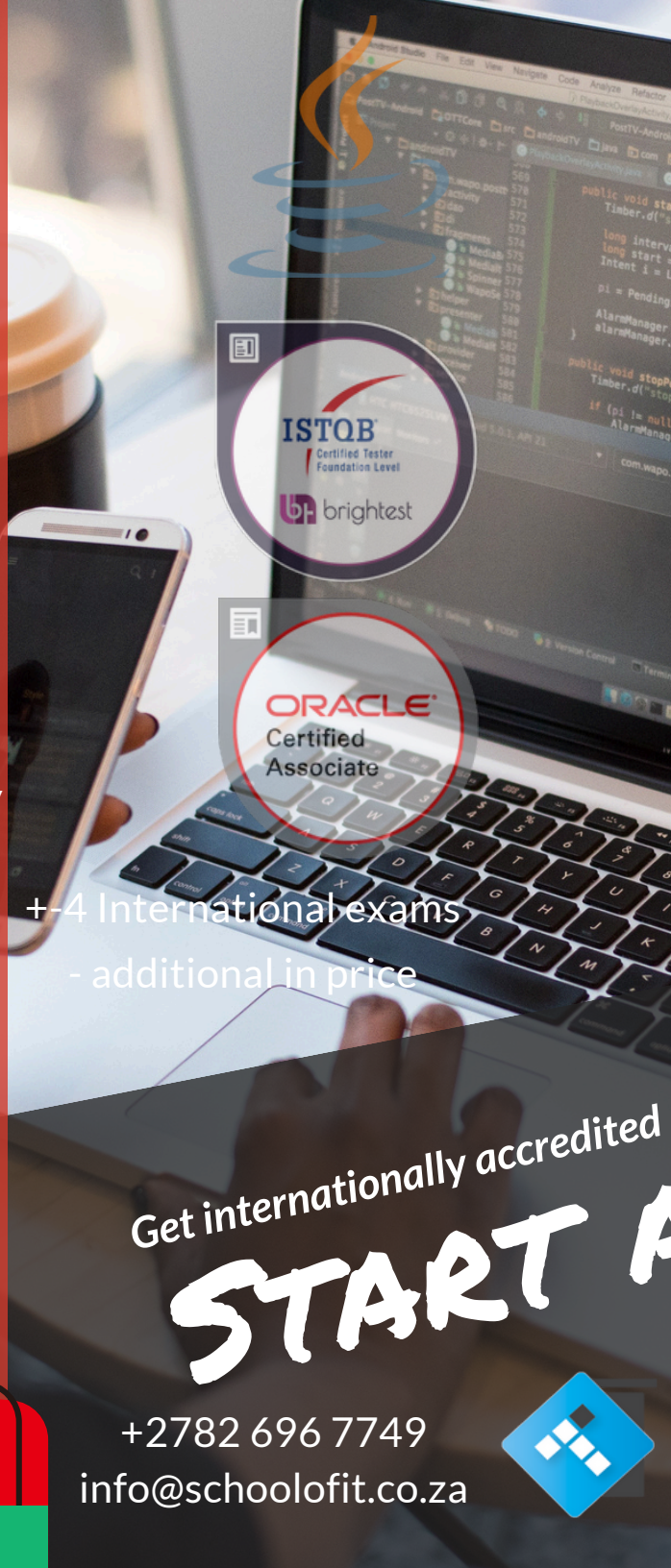
Design PAGEOBJECT, DATADRIVEN & HYBRID Automation FRAMEWORKS from scratch

Understand Mobile Testing Database testing & Performance testing, Automation guidelines with Selenium

PRICE: R28 800 / \$1800 / €1600/ £1500

Payment plan: [R14 400 per 20 hours]: 2 payments

Prerequisite: Intro Java course



+4 International exams - additional in price

ABOUT

Selenium is a portable framework for testing web applications. Selenium provides a playback tool for authoring functional tests without the need to learn a test scripting language

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GAME DEVELOPMENT:

UNITY & C#

[Duration: 120 Hours/
6 months]

Uses unity and c#

- Can build your own projects using C# in Unity
- Adept at navigating the Unity interface and interpreting basics of the API
- Confident iterating with prototypes, debugging, and solving programming challenges
- Capable of creating and programming a function state machine
- Can build complex games using C# in Unity
- Build a game for publication
- Get a solid understanding of end-to-end game production

+6 International exams
- additional in price



CERTIFIED
Associate
Game Developer

ABOUT

Unity is a tool that allows you to accomplish different types of tasks related to the game production process. Unity provides game developers with a 2D and 3D platform to create video games. What makes Unity so appealing to developers is that it's simple to use so that you don't need to start from scratch.

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PRICE: R65 400 / \$4560 / €4160 / £4000

Payment plan: [R10 900 per 20 hours]: 6 payments

Prerequisite: Intro C# course

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GAME DEVELOPMENT: UNREAL & C++

[Duration: 120 Hours/
6 months]

Uses unreal engine and c++

- Recreate the process for blocking out a 3D environment.
- Edit a blocked-out scene based on testing of pacing and flow.
- Use best practices to light a scene to create a believable mood.
- Apply post-processing volumes to modify the color grading and atmosphere of a scene.
- Import custom assets into Unreal Engine.

+2 International exams
- additional in price

ABOUT

Unreal Engine is a C++ video game engine based on the Unreal Tournament game series. Game developers use game engines like Unreal to take some of the “grunt work” out of developing a video game. For example, a game engine might have already established tools that allow you to do things like control the lighting and physics in a game, create models, and more. This saves the game developer a lot of time, allowing them to focus more on things like the graphics

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Payment plan: [R10 900 per 20 hours]: 6 payments

Prerequisite: Intro C++ course

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GAME DEVELOPMENT: PYGAME & PYTHON

[Duration: 60 Hours/
3 months]

Uses Pygame and python

- Module 1: Introduction to Python
- Python Overview
- Application of Python
- Installation
- Module 2: Basics of Python
- Variables
- Data Types
- Lists and Loops
- Conditional Statements
- Tuples
- Object-Oriented Concepts
- Module 3: Introduction to Pygame
- Overview
- Installing Pygame
- Events in Pygame
- Display
- Font Module
- Module 4: Creating Visuals
- Working with Pixel
- Working with Colour
- Images in Pygame
- Drawing Objects
- Module 5: Moving Objects
- Frame Rate
- Moving in a Straight Line
- Exploring Vectors
- Module 6: User Inputs
- Introduction
- Keyboard Control
- Mouse Control
- Moving in a Straight Line
- Joystick Control
- Module 7: Sound Interaction
- Overview
- Storing Sound
- Creating Sound Effects
- Playing Sounds with Pygame
- Playing Music with Pygame

+2 International exams
- additional in price

ABOUT

Pygame is a cross-platform set of Python modules designed for writing video games. It includes computer graphics and sound libraries designed to be used with the Python programming language.

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START ANYTIME!

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PRICE: R47 700 / \$3000 / €3000 / £3000

Payment plan: [R15 900 per 20 hours]: 3 payments

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BLOCKCHAIN FUNDAMENTALS

[Duration: 20 Hours]

An Introduction to Blockchain basics.
Hyperledger: Distributed Ledger Technology

Difference between Database & Blockchain.
Introduction to Cryptography, Cryptography
and Cryptographic Hash Functions.

Block mining of a Blockchain works – Peer-to-
Peer network, Proof-Of-Work Algorithm.
Sample code to understand Hashing.

How Cryptocurrency works.
Knowledge of CBDCs that will give you the
latest developments of finance.

Smart Contracts in Blockchain environment.
Learn to deploy & develop smart contracts on
Ethereum test network, Hyperledger & Corda;
three leading Blockchain technology
platforms.

Which Blockchain platforms among Ethereum,
Hyperledger or Corda.
Public & Private Keys in Bitcoin.

Learn about Bitcoin Wallets.
Insight into crypto asset and digital
currencies in the South African and emerging
market context. How to buy and Sell Bitcoins.



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ABOUT

Blockchain.com is a cryptocurrency financial services company. The company began as the first Bitcoin blockchain explorer in 2011 and later created a cryptocurrency wallet that accounted for 28% of bitcoin transactions between 2012 and 2020.

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