

# 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

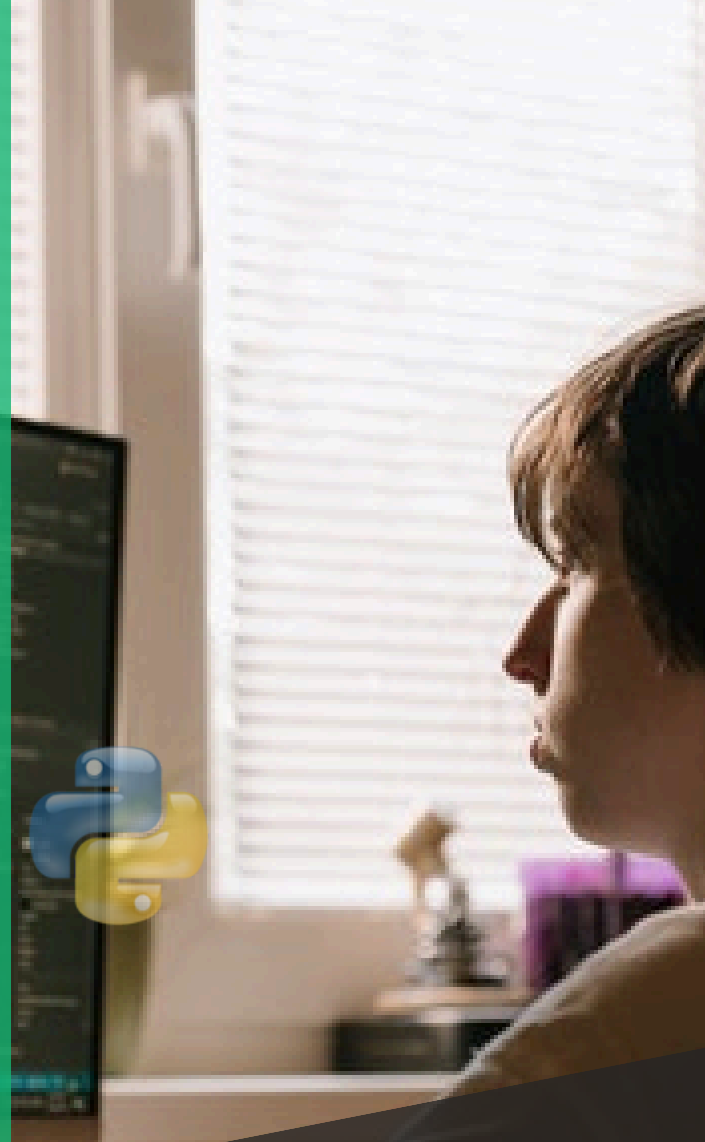
**parallelism:** making things happen at the same time

**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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PRICE: R8 900 / \$500 / €460/ £420

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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PRICE: R28 800 / \$1800 / €1600/ £1500  
R14400 / \$900 / €800/ £750 per 20 hours

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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

PRICE: R43 600 / \$2400 / €2400/ £2000  
R10900 / \$600 / €600/ £500 per 20 hours



+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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# 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

R10900 / \$600 / €600/ £500 per 20 hours

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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# START ANYTIME!

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PRICE: R32 700 / \$1950 / €1950 / £1800  
R10900 / \$650 / €650 / £600 per 20 hours

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

R10900 / \$600 / €600 / £500 per 20 hours

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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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R10900 / \$700 / €600/ £500 per 20 hours

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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\*

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**ACCEPTS ONLY 2 STUDENTS A YEAR**

PRICE: R129 000/ \$9000 / €8000/ £7000  
50% upfront, 50% after 80 hours completed

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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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# START ANYTIME!

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PRICE: R28 800 / \$1800 / €1600/ £1500  
R14400 / \$900 / €800/ £750 per 20 hours

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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# START ANYTIME!

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PRICE: R28 800 / \$1800 / €1600/ £1500  
R14400 / \$900 / €800/ £750 per 20 hours

Prerequisite: Intro Java course

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# APP DEVELOPMENT: REACT NATIVE

[Duration: 40 Hours/ 2  
months

Uses JavaScript/Typescript

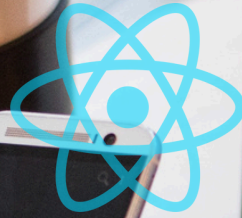
Introduces you to hybrid mobile  
application development

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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# START ANYTIME!

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PRICE: R28 800 / \$1800 / €1600/ £1500  
R14400 / \$900 / €800/ £750 per 20 hours

Prerequisite: Intro JavaScript course

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# APP DEVELOPMENT: FLUTTER

[Duration: 40 Hours/ 2  
months

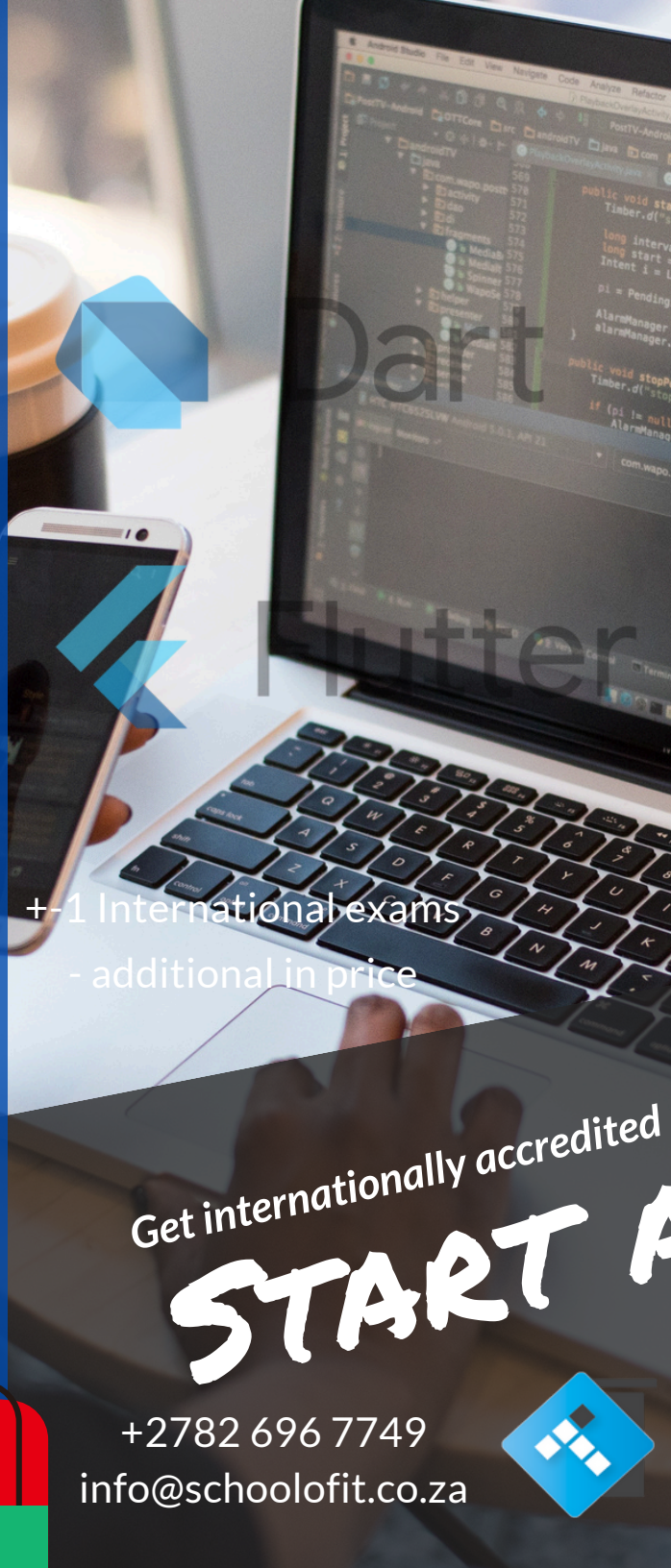
## Uses Dart

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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PRICE: R28 800 / \$1800 / €1600/ £1500  
R14400 / \$900 / €800/ £750 per 20 hours

Prerequisite: Intro Dart course

# 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

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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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R14400 / \$900 / €800/ £750 per 20 hours

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Prerequisite: Intro Web Design course

# 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  
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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  
R14400 / \$900 / €800/ £750 per 20 hours

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

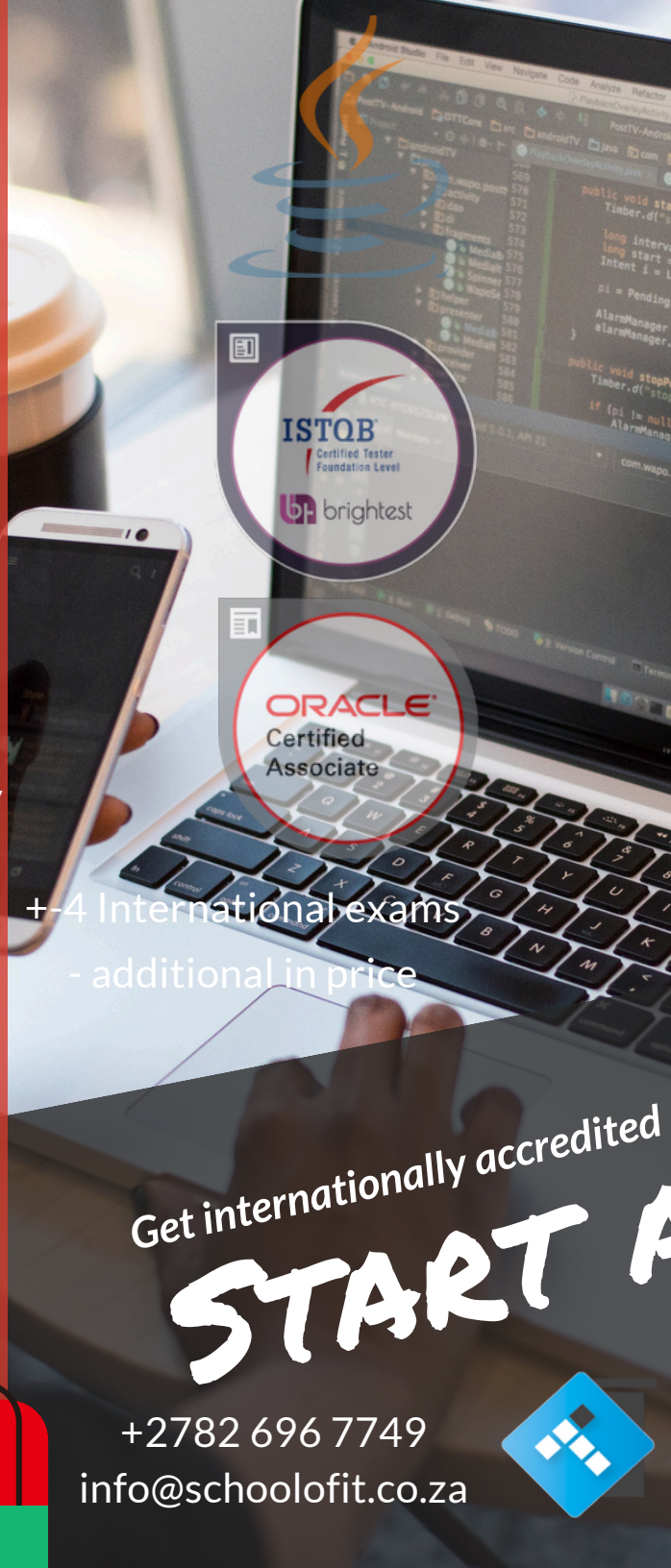
Automate all possible test cases & code quality standards  
Web driver functions to automate & verify Data Integrity with the GUI of the application

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  
R14400 / \$900 / €800/ £750 per 20 hours

Prerequisite: Intro Java course



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# 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  
R10900 / \$740 / €630 / £570 per 20 hours

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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PRICE: R65 400 / \$4560 / €4160 / £4000  
R10900 / \$740 / €630 / £570 per 20 hours

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

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## ABOUT

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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  
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