

Become a developer, starting today!



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Become a developer, starting today!

If you want a future which is financially secure, mentally challenging and fun, then learning about computers is the way to go.

You can work anywhere in the world - in your home, on the beach, or even on the moon! This mini guide will help you understand how you can build a successful path to your future, and it really is not hard. But first, you will need to learn a new language!

Three languages to get you started

There's no question that developers are a hot commodity in the tech world: Developer jobs are typically some of the hardest to fill, and the demand for these types of professionals does not seem to be slowing down.

According to data from Indeed, Java is by far the most in demand programming language in terms of job openings, with close to 3,000 postings per 1 million jobs. Ruby comes in seventh on the list but has experienced massive growth: Ruby developers saw a staggering 656% jump in searches by job seekers on Indeed between 2015 and 2016—among the fastest growing searches on the site, according to its report.

If you want to break into a career as a developer, here are the top three languages to consider.

1. Python (<https://www.python.org/>)

If you aren't yet sure what kind of developer you'd like to be, a good starting language with a lot of applicability is Python. Python is a highly accessible, widely used language that has an expansive development community and it is also a great way of learning to work with more complex environments such as JavaScript (for client-side programming) and Java or Scala, for enterprise computing.

2. Java (<https://www.java.com/en/>)

To determine what language to learn, it's important to consider what you'd like to build. Developer work breaks down into two categories: Making things you can see and touch, such as web pages, mobile apps, and desktop apps, and working with data integrations and server-side programming.

If you're interested in the latter, Java is the de facto server-side language. That means it can check whether you passed the right number of arguments in your function or you tried to infer value from a variable you shouldn't infer, so you can tell what you need to change early on.



And as the Indeed research makes clear, there are a large number of current job openings for Java programmers.

3. Javascript (<https://www.javascript.com/>)

For those interested in web, mobile, and desktop development, JavaScript is the most in-demand programming language. If you approach this from 'I need to acquire a skill to get a job,' be a JavaScript developer, pure and simple. JavaScript will likely continue to become more important. Netflix, PayPal, and Walmart are pushing tremendous amounts of data over the web with JavaScript. A growing percentage of back-end programming is now written in JavaScript as well.



4. HTML (<https://www.w3.org/TR/html52/introduction.html#introduction>)

HTML was designated as both the easiest programming language to learn and the one that programmers are the most comfortable with. Created in 1990, this markup language is one of the primary tools for creating standard web pages and applications across any browser.

5. PHP (<https://www.php.net/>)

PHP is an open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.

6. R (<https://www.r-project.org/>)

R is an open source programming language for statistical computing and graphics that is supported by the R Foundation for Statistical Computing.

7. Shell (<https://www.shellscript.sh/>)

A shell script is a computer program designed to be run by the UNIX shell. It is typically used for file manipulation, program execution, and printing text.

8. Ruby

(<https://www.ruby-lang.org/en/>)

Ruby is a dynamic open source programming language with a focus on simplicity. It also ranked high on the list of most creative programming languages.

9. Erlang

(<http://www.erlang.org/>)

Erlang is a general-purpose, concurrent, functional programming language. It is used to develop concurrent and distributed systems.

10. Go

(<https://golang.org/>)

Go, Google's open source programming language, is helpful for developing web applications with minimal frameworks, web servers, or APIs. It's easy to deploy a Go app running on Google Cloud Platform. Go was ranked as one of the most intuitive programming languages.



How can you learn how to program? Easy!

► Individual training:

- via online courses
- classroom courses
- books

► A project that motivates you!

You might try to write a small Python app to tell you if the light in your refrigerator turns off when you close the door. This project will force you to learn all the language primitives and understand size and execution flow. When you're done, you will have impressive skills.

New Developments: Swift Playgrounds for iPad

Apple first announced the addition of Swift Playgrounds, an app that lets developers and beginning coders program using the Swift language on the iPad in a Playground environment in 2016, which was pioneered on the Mac with Xcode 6.

In 2017, Apple announced two new versions of Swift Playgrounds. Swift Playgrounds 1.5 is available immediately and enables users to interface with Bluetooth-connected devices like drones, Sphero, and LEGO

toys to bring real-world programming for students and developers.

Swift Playgrounds is a free app that can be downloaded for iPad from the App Store.

Additional resources

- Apple's Swift Playgrounds will make robots and drones dance (CNET)
- How to use the Swift Playgrounds iPad app to code on the go (TechRepublic)
- Apple's Everyone Can Code initiative brings Swift curriculum and iPads to schools (TechRepublic)



Three iOS apps for learning to code in bite-size lessons

Learning to code in mini lessons is possible if you choose one of these three mobile apps. With lessons as short as five minutes there's always time to squeeze one in during a break, on the bus, or before bed. If you've been looking for a way around your crowded schedule read on—you'll find the answer right here.

Enki: Best for those really short on time



First up is Enki, which breaks coding lessons up into super short bits. Each lesson is little more than a few paragraphs detailing a specific topic, followed by a series of multiple choice questions. The average lesson is only about five minutes long, and each lesson tells you the average duration before you start.

One of my favorite features of Enki is its bookmarking ability. Each bit of learning, called an insight, can be flagged as something you want to come back to or work on. All of your insights are gathered together on a separate tab where you can easily see what you've covered along with what you've bookmarked.

Enki also has mini games that provide practice for each lesson. There is a game like Tetris, where you have to separate blocks containing Python values into truthy or falsy. A wrong guess leads to the blocks stacking up, and once they reach the top it's game over.

Enki only offers a few topics right now, but there are several more in development. The app is completely free with no in-app purchases, which is great for the user but is a likely cause of its sparse offerings. If you want to learn Linux, JavaScript, Java, Python, Git, or CSS you should definitely take Enki for a test drive. Everyone else will have to wait and hope that "coming soon" actually means it.



Mimo: Best for the beginner

Mimo offers short lessons like Enki, but it has a vast library of courses to choose from. There is one catch, though: It's not free. The first unit of each topic is available without a subscription, but if you want access to everything else it's \$5.99 a month. Yearly and lifetime subscriptions are also available.

While Enki presents information and quizzes you at the end of a lesson Mimo mixes questions right into the lesson, making the process seem smooth and interactive. Even simple feedback—like putting your name into a Swift variable to get a “Hello, Brandon!” response—feels rewarding and helps reinforce what the app is trying to teach.

There are too many offerings to list here—I suggest downloading Mimo and giving it a look. If you're serious about learning to code don't let a \$5.99 subscription fee stop you.

Py: Best for those who already have some coding knowledge

To be fair, Py isn't strictly a coding app. It offers classes in a variety of subjects, from coding to grammar to history. The lessons in Py are a bit different from Mimo or Enki. It does break lessons up into short bits, but each chapter is one long scrolling page, making it a bit confusing if you're trying to find a specific thing or go back to a particular lesson.

Being free, Py is also slightly limited in what it has to offer. Swift, JavaScript, HTML/CSS, Python, Java, R, SQL and Haskell are all available, but that's it for coding.

Blink and you will soon be out of school, looking for a good, high paying career. So start thinking now about making cool things – for you, the people and the planet!

If you want to land a well-paid job as a developer, you can take various routes. These are the languages that not only attract a decent salary but that are also in demand—or whose use is expected to take off in 2020.

Here are some examples of what you can expect to make as a salary within 5 years. And remember, many times not only can you work from anywhere, but you can work for yourself, or a company. The world is yours!

1. Python (IT Jobs Watch: £55,000 / Indeed £52,000 Stack Overflow \$53,763)

Python is a versatile language and is also regularly used by web and desktop developers and sysadmin/DevOps. The career website, Indeed, found that Python was frequently requested in job adverts for developers and software engineers.

2. Java (IT Jobs Watch: £55,000 / Indeed £53,000)

Demand for Java skills is actually increasing, rather than shrinking. Big multi-nationals tend to prefer Java. There's a finite pool of skilled workers and there are more jobs than there are individuals available to do that work. Combined with Java's use in writing Android apps, Java remains a good choice for someone starting out as a programmer.

3. Go (IT Jobs Watch: £62,500 / Indeed £57,000 Stack Overflow \$64,516)

Google released Go as an experiment in 2009, but today it helps power some of Google's biggest web properties. The language is designed for the modern computing age, optimized for running on the multicore processors, networked systems, and massive computation clusters that underpin web services.

4. Kotlin (IT Jobs Watch: £65,000)

Kotlin has been delighting Java developers by providing them with an alternative language that is modern and easy to learn and use. It has been described as offering some of the best features of other languages combined with the interoperability with Java. Google also announced it was an officially supported language on Android. Given that Kotlin is relatively new, it's unlikely that employers will advertise for a pure Kotlin developer, but an

Android developer with this up-and-coming language on their CV will stand out from the competition.



Languages reported as the most important to master within the next five years. (Image: CAST) In a poll of 500 US and European developers by software analysis specialist CAST, JavaScript and Java were jointly ranked as the most important languages for programmers to learn.

In the US, developers who use Go and Scala are highest paid, with an average salary of \$110,000. Yes, that is normal. In the UK, it's TypeScript that is the best rewarded, at \$53,763, while in Germany it's Java, garnering the same level of return. Finally, in France, it's Python at \$42,151.

Here are the programming languages that the top 25 Fortune 500 companies are currently seeking in job postings.

1. Walmart

Four coding languages: Java, Python, JavaScript, Perl*

3. Apple

Six coding languages: JavaScript, Python, Java, Perl, Ruby, PHP

5. McKesson

Two coding languages: Java, JavaScript

7. CVS Health

Three coding languages: Java, JavaScript, Swift

9. AT&T

Four coding languages: Java, Perl, Python, JavaScript

11. AmerisourceBergen

Two coding languages: C#, JavaScript

13. General Electric

Three coding languages: JavaScript, Java, Python

15. Cardinal Health

Four coding languages: Python, Java, JavaScript, Perl

17. Walgreens Boots Alliance

Two coding languages: Java, JavaScript

19. Chevron

Two coding languages: Python, JavaScript

21. J.P. Morgan Chase

Six coding languages: Java, JavaScript, Python, Perl, Swift, Ruby

23. Home Depot

Six coding languages: JavaScript, Python, Java, C#, PHP, Ruby

25. Wells Fargo

Four coding languages: Java, Python, JavaScript, C#

2. Berkshire Hathaway

N/A

4. Exxon Mobil

Four coding languages: C/C++, C#, R, MATLAB

6. UnitedHealth Group

Three coding languages: JavaScript, Java, Python

8. General Motors

No traditional developer jobs

10. Ford Motor

Six coding languages: C++, C#, JavaScript, Objective-C, Python, Ruby

12. Amazon.com

Five coding languages: Java, JavaScript, C++, Ruby, Swift

14. Verizon Communications

Five coding languages: Java, Python, JavaScript, Swift, PHP

16. Costco

Four coding languages: Python, Java, JavaScript, C

18. Kroger

No traditional developer jobs

20. Fannie Mae

Four coding languages: Java, Python, Perl, Ruby

22. Express Scripts Holding

Two coding languages: JavaScript, Java

24. Boeing

Five coding languages: Java, JavaScript, Ruby, Perl, Python

*Perl is dropping in popularity for system and network administrators but you can find out more about it here <https://www.perl.org/>

Front-end developers, full stack developers, mobile developers, and backend developers are all currently in the top 10 hardest to fill tech jobs, according to data from job search site Indeed.com. **Your future is bright!**



Savii Publishing are pleased to announce a series of educational books for students of all ages, covering the topics of blockchain, cryptocurrency, AI, and quantum technologies.

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The Cryptocurrency and Blockchain Activity Book

is for the youngest audience who will enjoy learning about blockchain and cryptocurrencies through fun activities like drawing, coloring, solving puzzles and actively taking part of adventures with Bob the Blocktrain and his joyful friends. 50 fun stickers are included for free. Recommended for students up to 10 years old.

The Student's Guide to Cryptocurrency and Blockchain

is a fun yet educational book for students who are interested in learning basic knowledge about cryptocurrencies and blockchain technologies. This book is full of illustrative pictures and infographics that provides an overview of crypto and blockchain related vocabulary and terms. This guide is recommended for students from 11- 16 years of age.

We have many more books, and would love to help you educate your students. Reach out to us if we can be of any help.

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STUDENT'S GUIDE TO CRYPTOCURRENCY AND BLOCKCHAIN TECHNOLOGY



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CRYPTO AND BLOCKCHAIN FOR BEGINNERS

An introduction to the worlds of blockchain technology and cryptocurrency



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"The best eBook I have seen to explain the basics about cryptocurrencies and blockchain technologies."

Roger Aitken, award-winning journalist, Forbes contributor and ex-FT staff writer

CRYPTOCURRENCY AND BLOCKCHAIN ACTIVITY BOOK

Learning is so much easier when you have fun drawing, coloring, solving mysteries and actively taking part in adventures with Bob the Blocktrain and his joyful friends from the Meet Bob the Blocktrain Book.



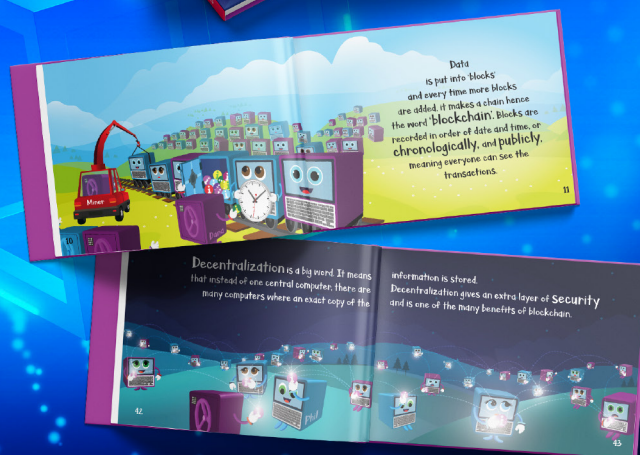
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