



The Rails Shop
WEB SKILLS TRAINING

Training benefits:

- Join a community of web developers
- Build and host a project with your tutor that you can show your potential employers
- Learn a skill that gets you productive quickly with your new web idea
- Cost **350,000 UGX** for a month

**CALL/whatsapp on 075269844 for details
0772810410**

Email: alexshyaka@therailsshop.club

1. Overview

The TheRailsShop coding training program prepares you for a career in web development by giving you the technical skills and practical experience to land a web development job and be a high-impact employee from day one.

Our entire curriculum is built to make you think, build applications, and solve problems like a professional web developer.

Everything is based on three cornerstones:

WEB APPLICATION DEVELOPMENT

You'll start out learning the fundamentals of programming, website design and markup languages. Through this ramp up, you'll dive into web application development by building multiple and increasingly complex web apps, using the same tools as professional web developers for version control, deployment, and feature improvements.

Rather than learning individual programming topics in isolation, our curriculum teaches you by doing. Each web application builds upon what you've learned previously and expands your knowledge.

It starts with helping you understand the Model-View-Controller Architecture and framework, through database relationships and API (Application Programming Interfaces) integrations, and expands all the way to Object-Oriented Programming and Test Driven Development.

ALGORITHMS AND DATA STRUCTURES

Our algorithms and data structures cornerstone lays the crucial foundation for you to reach far beyond standard web applications by designing and integrating the power of algorithms and advanced logic into your apps. In addition to building complex applications, you'll master practical computer science topics and overcome one of the biggest hurdles to entering a software

engineering career: the technical interview.

AGILE TEAM PROJECT

The best web applications in the world are built by amazing teams. Those engineering teams follow a web developing workflow based on agile principles. Individual developers collaborate on features, give and receive consistent code reviews, and communicate in detail about best code implementation practices. You'll gain identical real-world experience by operating as part of an agile web development team, building an advanced web application that combines algorithms, user features, and advanced logic.

2. WHY RUBY JAVASCRIPT AND BOOTSTRAP?

WHY RUBY?

Readability

The Ruby language was designed with one main principle in mind: developer happiness. It's a programming language that was designed to be easy to read, fast to learn, and simple for developers to use to solve complex problems

The learning curve to master Ruby is less steep in comparison to other programming languages, and after just a short period, you will be able to write and execute Ruby programs and solve complex algorithm challenges. In addition, mastering Ruby first provides you with an ideal springboard to learn another programming language at an accelerated pace... like JavaScript.

Open Source

The open source Ruby community is massive, very active, and welcoming to people of all skill levels. When your programming craft is backed by an active, worldwide community, it means you have ample opportunities to find and work on interesting projects with awesome people.

**"IN-DEMAND WEB DEVELOPERS KNOW
MORE THAN ONE PROGRAMMING LANGUAGE"**

WHY JAVASCRIPT?

Future Proof

Today's user interfaces depend heavily on JavaScript to create a smooth user experience. JavaScript skills are an essential web development skill for today and tomorrow. While JavaScript is a powerful and efficient programming language, it's notoriously difficult to learn as a first programming language. Instead, it's perfect for your second language.

Being In-Demand

In-demand web developers know multiple programming languages; they're polyglot programmers. When you have experience with more than one programming language, you enable yourself to choose the right tool for the job rather than use the same tool for every job. Having the ability to draw on this flexibility and experience is exactly what will make you in demand.

TheRailsShop

EXPERT SUPPORT

When you're stuck, you get help. Our team is here to support you and make sure that every minute you invest counts toward reaching your goals. We give you a structured path and all the help you need so that you're never held back.

FLEXIBLE CURRICULUM

We designed our curriculum to be flexible. You can access our curriculum around the clock and schedule your mentorship sessions flexibly around your schedule. We have dedicated staff available to help and support you and review your code for over 13 hours each day, and our live office hours brings the TheRailsShop community together in one virtual room every week.

4. CURRICULUM OVERVIEW

THE INTRO TO SOFTWARE ENGINEERING

Before you start the TheRailsShop Web development Program, you'll need to complete a 20-hour intro course to learn Ruby and HTML/CSS.

During our intro course, we teach you the fundamentals of the Ruby programming language (methods, functions, loops, and iterations) and help you build a web page that's live on the internet.

Through the intro course, you'll submit programming solutions and receive consistent code reviews by one of our mentors.

TheRailsShop WEB DEVELOPMENT PROGRAM

- 900+ hours of curriculum covering the entire Web development stack
 - 36 job readiness lessons
 - 28 algorithm and coding challenges
 - Regular 1-on-1 mentor sessions
 - 5+ launched and code reviewed projects
 - 4 weeks of agile team project sessions
-
-
-

TheRailsShop

HIGHLIGHTS FROM THE FULL PROGRAM

The TheRailsShop Web Development Program covers 8 high level topics.

TOPIC 1: RUBY

You will begin by learning the fundamentals of Ruby– including variables, iterations, loops, conditionals, arrays, hashes, and data structures– then move on to object-oriented programming and classical inheritance.

Through the course, you'll learn how to write complex logic with Ruby and incorporate it directly into web applications.

By tackling increasingly difficult problems, you'll always be working in the zone where learning happens at an accelerated pace. You will get comfortable debugging your code, solving error messages on your own, and giving code reviews to other students.

TOPIC 2: [RUBY ON] RAILS

You will learn how to use Ruby on Rails– a powerful web framework– by building complex web applications and understanding patterns that are common across multiple programming languages and frameworks. This includes topics like: Model-View-Controller architecture, database design, and modification using migrations.

You'll learn how the various components of the web application fit together and interact with each other, including ActiveRecord, ActionController, and templating Views.

TOPIC 3: JAVASCRIPT

You will build dynamic web applications using industry-standard tools that'll allow you to rapidly add dynamic content and build a fluid user interface. You'll begin with jQuery and implement a drag-and-drop user interface into a two-sided marketplace application. Next, you'll learn advanced JavaScript features, like callbacks and performing ajax HTTP requests within a web browser.



TheRailsShop

TOPIC 4: AGILE TEAMWORK

You'll learn how to work as part of an agile software development team and gain crucial insight into how web applications are built in the real world. Under the wing of a senior software engineer, you will join weekly agile team meetings for code reviews, sprint planning, and feature assignments.

You will pair program with other students, understand continuous integration and deployment, use GitHub as it is used in the real world, and receive consistent feedback on your code like you would on any professional software engineering team.

Together with your agile team, you will build a stock tracker social media app inside of a Rails application, integrate advanced logic and algorithms, and gain the crucial agile team working experience to become a capable and high-impact developer.


TOPIC 5: TEST-DRIVEN DEVELOPMENT

You will learn how to use Test-Driven Development and use RSpec to write automated software tests while keeping the red-green-code-refactor cycle tight. You'll use standard testing tools like FactoryGirl for database population and CodeShip to ensure your tests continue to pass as you add new features.

TOPIC 6: ALGORITHMS AND COMPUTER SCIENCE FUNDAMENTALS

You will begin by tackling standard coding challenges and slowly work yourself toward building and coding complex algorithms. You'll work with complex data structures, solidify your object-oriented programming skills, and learn multidimensional arrays, linked lists, trees, and stacks and queues. You'll also implement sorting algorithms as well as depth-first and breadth-first searches.

Your advanced programming skills will lay the critical foundation for your software engineering career, give you rigorous preparation for any technical interview, and set you up to build an advanced web application in your agile team project.





TheRailsShop

TOPIC 7: HTML, CSS, AND RESPONSIVE DESIGN

You will use HTML and CSS to build web applications that are beautiful and well designed. Using front-end libraries like Twitter Bootstrap, you 'll design and code applications that are responsive and mobile-first by incorporating media queries to the different viewport widths. Finally, you will learn how to use the Rails asset pipeline and switch from regular CSS to SASS - a supercharged version of CSS.

TOPIC 8: VERSION CONTROL THROUGH GIT AND GITHUB

You'll learn how experienced developers work on multiple features and collaborate with teams using version control through git and GitHub. You will work with branches, merge code, and resolve merge conflicts. You'll also learn how developers propose codebase changes through pull requests and run their test suite automatically.

The **TheRailsShop Web Development Program** combines expert 1-on-1 mentor training with a customized curriculum and a worldwide student support community.

