

# Web Programming Bootcamp

## Master JavaScript, Git & GitHub, and Python / Django from Scratch

Code College's Web Programming Bootcamp is a comprehensive 3-month (500 hours) intensive program designed for complete beginners to transform into job-ready web developers. Master three core modules covering frontend JavaScript development, professional version control with Git & GitHub, and backend Python/Django development. Build 7+ real-world projects, gain hands-on experience, and prepare for immediate employment in today's competitive tech market.

### Quick Facts

<b>Duration</b>	500 hours (3 months full-time)
<b>Format</b>	Full-time intensive, Hybrid in Johannesburg / Live online elsewhere
<b>Skill Level</b>	Beginner to Intermediate
<b>Pre-requisite</b>	None - no experience required

For more details, visit: [codecollege.co.za/programming-courses/web-programming-bootcamp/](http://codecollege.co.za/programming-courses/web-programming-bootcamp/)

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## 1. Course Overview

Welcome to Code College's Web Programming Bootcamp! This intensive 3-month program transforms complete beginners into job-ready web developers. Whether you've never coded before or you're formalizing your web development knowledge, this bootcamp provides everything you need. Master JavaScript for frontend development, Git & GitHub for professional version control, and Python/Django for backend development. Build real-world projects, develop industry-relevant skills, and prepare for immediate employment in web development roles.

## 2. Who Is This Bootcamp For?

- Complete beginners with zero coding experience
- Career changers looking to break into tech
- School leavers intending to start a development career
- Professionals wanting to master modern web technologies
- Aspiring web developers ready to build real projects
- Anyone with determination to launch a tech career

### 3. Complete Curriculum Overview

500 hours of intensive, hands-on learning with 3 core modules completed over 3 months

#### ***MODULE 1: Intro To Programming - JavaScript Fundamentals (approx. 4-5 weeks)***

- JavaScript variables, data types, and operators
- Arrays, Objects, and data structures
- Logic statements and conditional programming
- Loops and iteration
- Functions and code modularity
- DOM manipulation and HTML/CSS interaction
- Building interactive web applications
- Portfolio website development and deployment

#### ***MODULE 2: Git & GitHub - Version Control Fundamentals (approx. 1-2 weeks)***

- Git fundamentals and core concepts
- Local repository management and commits
- Branching strategies and merging
- Remote repositories and GitHub synchronization
- Pull requests and code reviews
- Professional Git workflows and collaboration
- Recovering from mistakes and undoing changes
- Team development practices

#### ***MODULE 3: Python / Django - Backend Development (approx. 3-4 weeks)***

- Python fundamentals and programming concepts
- Object-oriented programming with classes
- Data structures and collections
- Django web framework and project setup
- Database design and models
- Views, URLs, and routing
- Templates and user interface development
- Forms and user authentication
- Building and deploying full-stack applications

## 4. Key Skills You'll Master

### ***Frontend Development***

- HTML5 and CSS3
- JavaScript ES6+
- DOM manipulation
- Interactive user interfaces
- Responsive design

### ***Version Control & Collaboration***

- Git command-line proficiency
- GitHub platform mastery
- Branching and merging
- Pull requests and code reviews
- Professional team workflows

### ***Backend Development***

- Python programming
- Django framework
- Database design
- RESTful API development
- User authentication

### ***Professional Skills***

- Problem-solving
- Debugging and troubleshooting
- Project planning
- Code quality
- Professional communication

## 5. Module-by-Module Breakdown

### ***Module 1: JavaScript Fundamentals***

Phase 1 (4-5 weeks) - Master frontend development with JavaScript. You'll start with programming basics and progress to building interactive web applications. Projects include games, shopping cart, portfolio website, and quiz applications.

### ***Module 2: Git & GitHub***

Phase 2 (1-2 weeks) - Master professional version control. Learn Git commands, GitHub collaboration, branching strategies, and code review processes. This module ensures you can work effectively in professional development teams.

### ***Module 3: Python / Django***

Phase 3 (3-4 weeks) - Master backend web development. Learn Python programming, Django framework, database design, and full-stack application development. Build server-side applications and deploy them online.

## 6. Real-World Projects

Throughout this bootcamp, you'll build 7+ real-world projects including:

- Interactive games and applications (Guessing Game, Adventure Story)
- Shopping Cart application with DOM manipulation
- Personal portfolio website (deployed online)
- JavaScript Quiz application
- Alien Invasion game with Python
- Data visualization tool with APIs
- Full-stack Django web application
- Capstone project demonstrating all three modules

## 7. Course Details & Prerequisites

<b>Duration</b>	3 months (500 hours full-time)
<b>Format</b>	Full-time intensive bootcamp
<b>Skill Level</b>	Beginner to Intermediate
<b>Pre-requisite</b>	None - No prior experience required

### ***What You'll Need***

Laptop/PC: At least Intel i5 with 8GB RAM (Windows, Mac, or Linux). 16GB RAM recommended

Internet: Stable 10+ Mbps connection. 50-100GB data per month for assignments

Software: Free development tools (VS Code, Python, Django, Git)

Commitment: Full-time availability (40+ hours per week) for 3 months

## 8. Certification & Support

Upon completion, you'll receive:

- Code College Web Programming Bootcamp Completion Certificate
- Portfolio of 7+ real-world projects
- Professional GitHub profile with project repositories
- Career guidance and job placement assistance
- Continued access to course materials

### ***Ongoing Support:***

Instructor office hours, peer study groups, comprehensive documentation, and a supportive learning community ensure you never feel stuck. Help is always available when you need it.

## 9. Career Opportunities

Upon completing the Web Programming Bootcamp, you'll be positioned for:

- Junior Web Developer positions
- Frontend Developer roles
- Backend Developer roles (with Django focus)
- Full-Stack Developer roles (with additional study)
- Freelance web development
- Entrepreneurship and launching your own projects

### ***Next Steps for Advancement:***

After Web Programming Bootcamp, consider continuing to our Full-Stack Web Developer Bootcamp to master the MERN stack, or the Java Coding Bootcamp to expand your backend expertise. Many graduates find employment immediately and others advance to specialized bootcamps.

## 10. Pricing & Investment

### ***Web Programming Bootcamp***

R24 995 (Pre-paid) or R29 995 (Full-price)

#### ***What's Included:***

500 hours of intensive training across 3 modules | All course materials and resources | 7+ real-world projects | Career guidance and job placement support | Flexible payment options available

#### ***Flexible Financing:***

We offer flexible payment plans and student loan options to make education accessible. Learn more at [codecollege.co.za/student-loans](http://codecollege.co.za/student-loans)

## 11. Your Next Steps

1. Visit [codecollege.co.za](http://codecollege.co.za) to explore the program
2. Apply online at [codecollege.co.za/apply-now](http://codecollege.co.za/apply-now)
3. Complete the admissions assessment
4. Attend a personal interview with our team
5. Choose your start date and payment option
6. Begin your 3-month journey to becoming a web developer

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