

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

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

For more details, visit: 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

Duration	3 months (500 hours full-time)
Format	Full-time intensive bootcamp
Skill Level	Beginner to Intermediate
Pre-requisite	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

11. Your Next Steps

1. Visit codecollege.co.za to explore the program
2. Apply online at 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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