

Back-End Development Course



About Us

www.qavdev.com

Qavdev is your trusted partner for precision in quality and empowerment in growth. We meticulously scrutinize every line of code to ensure digital products shine with quality, security and performance. Beyond testing, we nurture talent, partner with leading companies and generate value, empowering businesses, individuals and the tech industry itself to reach new heights. Choose **Qavdev** for the assurance of success and the promise of a brighter digital future.

At Qavdev Limited, we provide you with several weeks of industry-recognised accredited training, giving you the skills and confidence to launch your career as a Software Tester. Qavdev Limited is a leading e-learning platform providing live instructor-led interactive online training.

We cater to professionals and students across the globe in categories like Software Testing, Content Writing, UI/UX, Programming, Automation Testing, A.P.I Testing, Cyber Security, Web development and more.

We have an easy and affordable learning solution that is accessible to millions of learners. With our students spread across countries like the US, Nigeria, Germany, UK, Canada, multiple countries in Africa and many others, we have built a community of over 500 learners across the globe.

Course Objectives

www.qavdev.com



- Gain proficiency in building scalable Backend systems for Web applications and more
- Understand the core principles of server-side development
- Learn and Master key Backend programming languages and Frameworks



- Understand how to use different databases, database optimization techniques and CRUD Operations
- Implement Robust security practices for User Authentication and Data Protection
- Ability to effectively build, test, document and maintain secure APIs that handle large data set

Other Course Objectives include:



Collaboration

Ability to collaborate on development using version control systems like Git.



Performance Optimization

Learn basic and advanced Techniques for optimizing Backend Techniques/ processes



Handling Complex Concepts

Gain in-depth knowledge of Backend architecture, micro-services and cloud computing platforms

Why Back-End Web Development Course from Qavdev?

www.qavdev.com

Lifetime Access

- Course Access never expires
- Free Access to Future Updates
- Unlimited access to Course Content
- Mentorship

Live Interactive Learning

- World-Class Instructors
- Expert-Led Mentoring sessions
- Instant Doubt Clearing
- LinkedIn Optimization

24x7 Support

- One-on-One Learning assistance
- Help Desk Support
- Resolve Doubts in Real-time
- Peer Learning Series (PLS)

Hands-on Project-based learning

- Industry-Relevant Projects
- Course Demo Dataset & Files
- Quizzes & Assignments
- Interview Tips & more

Industry-Recognised Certificate

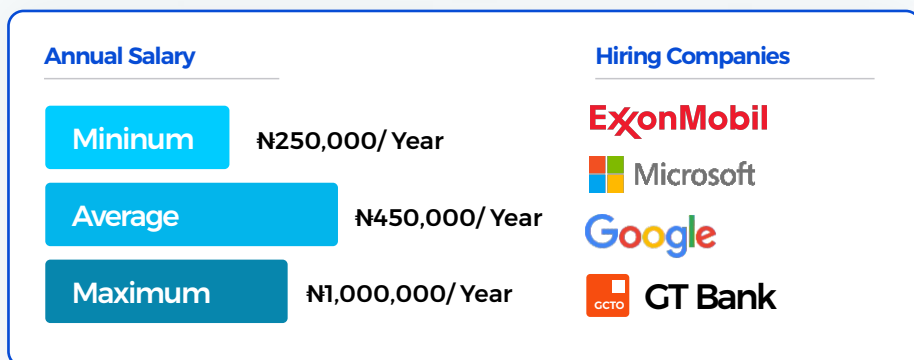
- Qavdev Training Certificate
- Graded Performance Certificate
- Certificate of Completion

Training Benefits

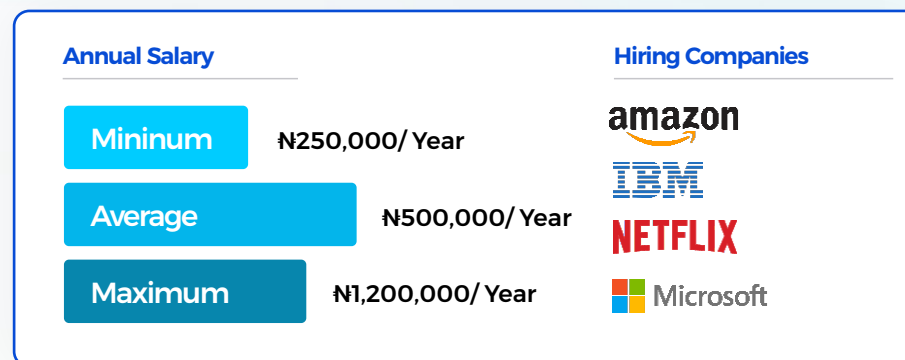
www.qavdev.com

Understanding the demand for Web Development training not only provides you with Technical skills, but also opens up a world of professional options, stimulates creativity and positions one as a valued asset in the ever-changing Tech market.

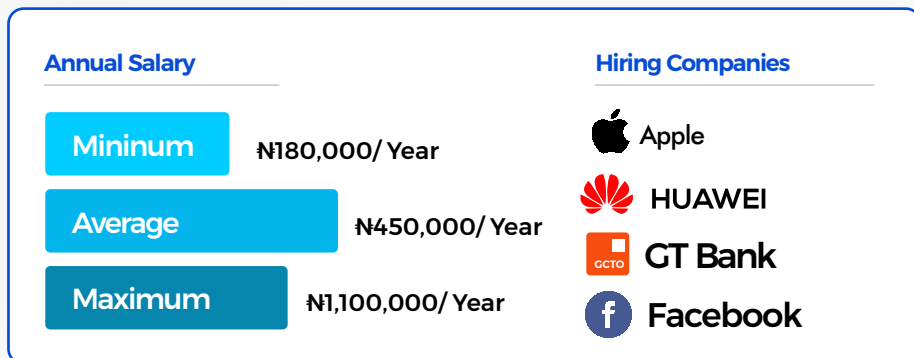
• Backend Developer



• DevOps Engineer



• Database Administrator



Course Syllabus (Duration: 12 Weeks.)

WEEK 1-2: - Introduction to Back-End Development and JavaScript Basic

- Introduction to Back-End Development
- Understanding Servers, Clients and Databases
- Overview of the Web: HTTPS Methods (GET, POST, PUT, DELETE)
- Setting up the Development Environment
- JavaScript Fundamentals for Back-End

WEEK 3-4: - Introduction to Node.js

- What is Node.js? Overview and Features
- Understanding Non-blocking I/O & Asynchronous Programming
- Setting up a Node.js Project with npm
- File System and Path Modules in Node.js
- Working with Node.js Built-in Modules
- Error Handling in Node.js

WEEK 5-6: - Express.js Fundamentals

- Introduction to Express.js: Setup and Installation
- Routing and Middleware in Express.js
- Working with Requests and Response Objects
- Serving Static Files
- Error Handling & Debugging in Express.js

Course Syllabus (Duration: 12 Weeks.)

WEEK 7-8: - Building RESTful APIs with Node.js and Express.js

- Understanding REST Architecture
- Structuring RESTful APIs in Node.js and Express
- CRUD Operations (Create, Read, Update, Delete)
- Route Parameters, Query Strings & Path Variables
- Response Formats: JSON, HTML
- Middleware and Error Handling in REST APIs

WEEK 9-10: - Database Integration

- Introduction to Databases (SQL vs. NoSQL)
- Setting up MongoDB (or PostgreSQL, MySQL)
- Exclusive Introduction to Mongoose (For MongoDB)
- Introduction to SQL Databases
- Querying databases with Node.js

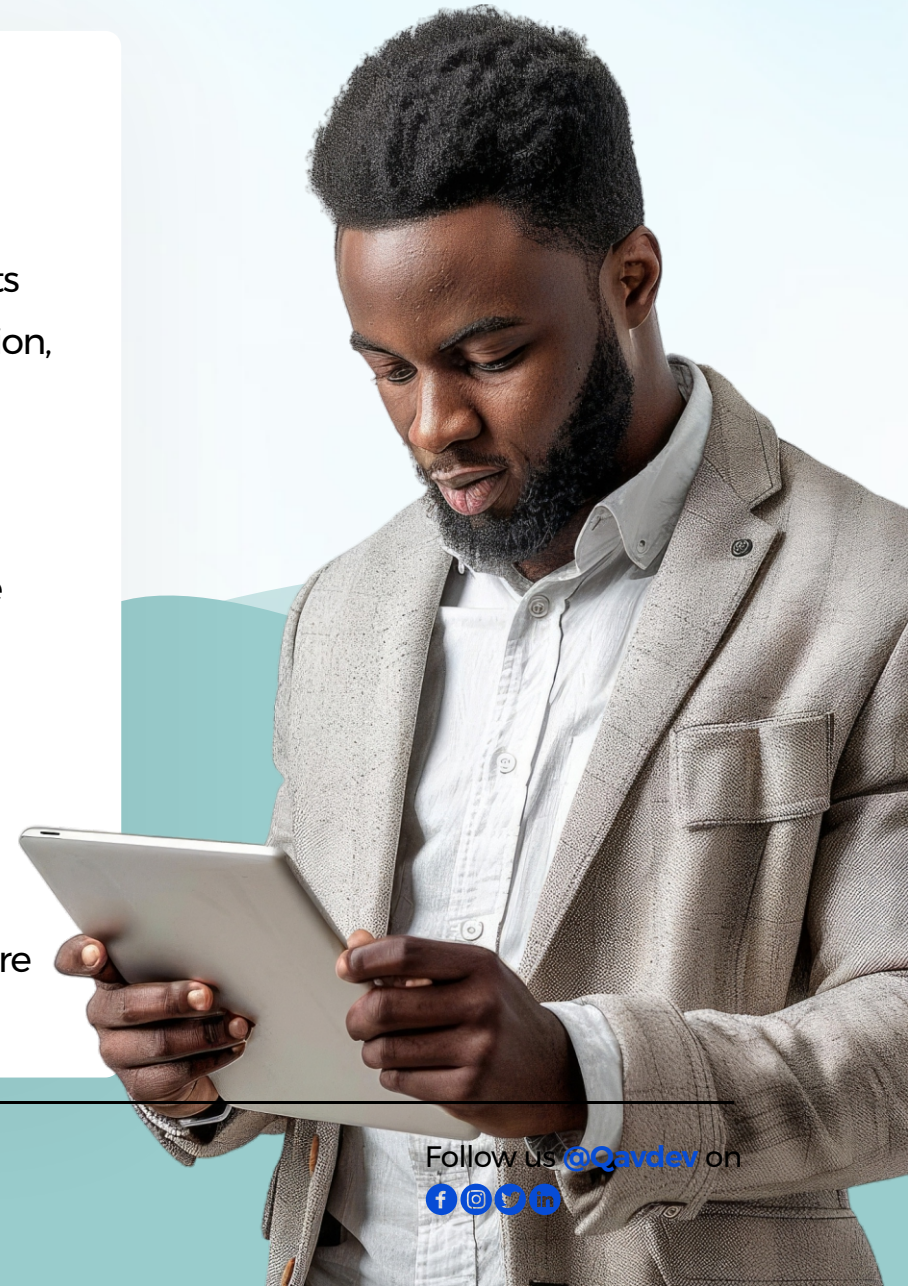
WEEK 11-12: - Authentication & Authorization; Deployment & Version Control

- Introduction to Authentication & Authorization
- Securing Routes using Middleware
- Protecting Endpoints & Role-based Access Control (RBAC)
- Introduction to Deployment, Git & Version Control
- Optimizing Performance & Scalability in Node.js Apps
- User Registration & Login with Hashing (bcrypt.js or argon2)

Course Assignment and Assessments:

www.qavdev.com

- Weekly technical assignments and reviews
- **Monthly Projects:**
Build Servers, APIs and Database that includes interactive elements using Back-end Frameworks, Implement features like Authentication, Security, Database creation etc.
- **Collaboration:**
Collaborate with teams on a coding project using Git. Each trainee would contribute to the project, create branches and submit pull requests. Resolve any merge conflicts that arise.
- **Portfolio Presentation:**
Each trainee displays a portfolio of projects performed during the course training. They should explain design decisions, code structure and any issue experienced during development.



Qavdev Certification

Qavdev's Back-End Development certification is curated by subject matter Experts to help you gain an understanding of management as well as Streamline process for the culmination of projects.

Upon successfully completing the Back-End Development Certification course, Qavdev provides the course completion certificate for Web Development Professionals with life time validity.



Our Alumni Work at



Phasecurve



Ask your queries to our experts!

Qavdev course counselors and learner support advisors are available 24x7 to help with your learning needs.

Are you an aspiring Web Developer but uncertain about your level of expertise? Consider signing up for Qavdev's Web Development course. While there are no strict pre-requisites, possessing a basic understanding of programming concepts would be beneficial. It is important to note that the course is specifically designed for beginners and we'll progress through the syllabus together at a comfortable pace.

Brace up and get your devices ready for a life-transforming training course!



UK:

+44 161 818 9716

 **Call Now**



Nigeria:

+234 902 6967 743

 **Call Now**



2, Flash Estate Opebi Allen,
Lagos, Nigeria.

Contact Us

info@qavdev.com

Click On The Icons to Follow Us



visit us: - www.qavdev.com