



**QUILLANCE
INFOTECH PVT LTD.**

Full Stack Development Program

The Quillance Full Stack Development Program is a complete beginner-to-advanced training program designed to help learners master modern web and software development. This program covers everything from frontend fundamentals to advanced backend engineering, cloud deployment, DevOps, scalable architectures, and production-ready application development used in modern tech companies.



Program Overview

What You Will Learn

- Build responsive and modern frontend applications
- Develop secure backend APIs and scalable databases
- Create full stack web applications using modern frameworks
- Work with cloud deployment and DevOps workflows
- Understand scalable system architecture and performance optimization
- Build production-ready applications used in real businesses

Career Opportunities

After completing this program, learners can apply for roles such as:

- Full Stack Developer
- Frontend Developer
- Backend Developer
- MERN Stack Developer
- Software Engineer Intern
- Web Application Developer

Live Projects You'll Build

- **Project 1 — Responsive Portfolio Website**

Design and develop a professional personal portfolio website using HTML, CSS, and JavaScript.

- **Project 2 — Business Landing Page**

Build a responsive and animated business landing page with modern UI components.

- **Project 3— AI-Powered SaaS Dashboard**

Build a scalable dashboard with analytics, authentication, and AI integrations.

- **Project 4 — Learning Management System (LMS)**

Develop a subscription-based LMS platform with admin, instructor, and student modules.

- **Project 5 — Full Stack Enterprise Management System**

Build an enterprise-level management system with deployment and cloud integration.

MODULE 1

Cybersecurity & Networking Fundamentals

TOPICS COVERED:

- Introduction to Web Development & Internet Basics
- HTML5 Structure, Forms & Semantic Elements
- CSS3 Fundamentals & Styling Techniques
- Flexbox, Grid & Responsive Design Principles
- Bootstrap & Tailwind CSS Frameworks
- Git, GitHub & Version Control Workflow

SKILLS GAINED:

- Responsive Web Design
- Frontend Development Basics
- UI Styling Techniques
- Version Control Workflow

PRACTICAL LEARNING:

- Create responsive web pages
- Build modern landing pages
- Design mobile-friendly layouts
- Use GitHub for project collaboration

MODULE 2

JavaScript & Modern Frontend Development

TOPICS COVERED:

- JavaScript Fundamentals & ES6 Concepts
- Variables, Functions, Arrays & Objects
- DOM Manipulation & Event Handling
- Async JavaScript, APIs & Fetch
- React.js Fundamentals & Component Architecture
- Redux Toolkit, TypeScript & State Management

SKILLS GAINED:

- JavaScript Programming
- React Development
- API Integration
- Frontend Architecture Understanding

PRACTICAL LEARNING:

- Build dynamic user interfaces
- Develop single-page applications
- Integrate APIs with frontend systems
- Manage complex frontend application states

MODULE 3

Backend Development & Database Engineering

TOPICS COVERED:

- Introduction to Backend Architecture
- Node.js Runtime & Express.js Framework
- REST API Development & CRUD Operations
- MongoDB, SQL & Database Relationships
- Authentication & Authorization (JWT/OAuth)
- API Security, Validation & Error Handling

SKILLS GAINED:

- Backend Development
- Database Management
- API Engineering
- Authentication & Security Concepts

PRACTICAL LEARNING:

- Build backend servers and APIs
- Connect databases with applications
- Implement secure authentication systems
- Handle server-side business logic

Module 4

Cloud, DevOps & Deployment

TOPICS COVERED:

- Linux Basics & Server Management
- Hosting, Domains & Deployment Fundamentals
- Docker & Containerization Concepts
- AWS Cloud Fundamentals (EC2, S3, IAM)
- CI/CD Pipelines & GitHub Actions
- Nginx, Monitoring & Production Deployment

PRACTICAL LEARNING:

- Deploy applications on cloud servers
- Configure Linux-based environments
- Work with Docker containers
- Set up CI/CD pipelines for automation
- Host full stack applications online
- Monitor deployed applications

SKILLS GAINED

- Cloud Deployment Fundamentals
- DevOps Workflow Understanding
- Linux & Server Management
- CI/CD Pipeline Configuration
- Application Hosting & Monitoring
- Deployment Automation Skills

Module 5

Advanced Full Stack Engineering

TOPICS COVERED:

- System Design Fundamentals
- Microservices Architecture
- GraphQL API Development
- Redis Caching & Performance Optimization
- Web Security & OWASP Best Practices
- Scalable Backend & High-Traffic Handling

SKILLS GAINED:

- Advanced Backend Engineering
- System Design Understanding
- Performance Optimization Techniques
- Scalable Architecture Knowledge
- Security Best Practices
- Enterprise Application Development Skills

ADVANCED CONCEPTS INCLUDED:

- Scalable Application Architecture
- API Optimization Strategies
- Load Balancing Concepts
- Advanced Authentication Systems
- Production-Level Performance Tuning
- Enterprise Security Practices

PRACTICAL LEARNING:

- Design scalable application systems
- Optimize APIs and backend performance
- Implement caching mechanisms
- Secure applications against vulnerabilities
- Handle high-traffic application scenarios
- Work with enterprise-level architecture concepts

Module 6

Live Project & Agile Development

TOPICS COVERED:

- Agile & Scrum Methodology
- Sprint Planning & Team Collaboration
- Full Stack Capstone Project Development
- Third-Party API Integration
- Testing, Debugging & Optimization
- Production Deployment & Client Presentation

PRACTICAL LEARNING:

- Work in collaborative development teams
- Participate in sprint-based workflows
- Build and deploy production-ready applications
- Present projects professionally

SKILLS GAINED

- Team Collaboration
- Agile Workflow Understanding
- Production Deployment Experience
- Debugging & Problem Solving Skills

Module 7

Placement & Career Preparation

TOPICS COVERED:

- Resume Building & ATS Optimization
- LinkedIn & Professional Branding
- Data Structures & Algorithms Basics
- Technical Interview Preparation
- Mock Interviews & HR Preparation
- Career Guidance & Freelancing Strategy

SKILLS GAINED:

Students will be prepared for internships, freelance opportunities, and full-time full stack development roles.

CAREER SUPPORT INCLUDES:

- Resume & Portfolio Reviews
- GitHub Profile Optimization
- Mock Technical Interviews
- Internship & Placement Assistance
- Freelancing & Startup Guidance
- Career Mentorship Sessions



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Thank You!!



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