

Full Stack Development BROCHURE



About Alocodes

Alocodes is an EdTech initiative by Alomonx Technology, created to provide high-quality coding, AI, and cloud training to students, job-seekers, and professionals. We believe that skills matter more than degrees, and our mission is to deliver industry-level training that prepares learners for real-world jobs.

Program Overview

The **Full Stack Development Program** is designed to help students and professionals master both **frontend and backend development** to build complete web applications from scratch. This program provides hands-on experience in designing responsive user interfaces, developing powerful server-side applications, managing databases, and deploying real-world projects. Whether you want to become a **Web Developer, Software Engineer, or Freelance Developer**, this course equips you with industry-ready skills.

Why Choose Our Full Stack Development?

- High demand in every industry.
- One of the most in-demand tech skills globally.
- Ability to build complete applications independently.
- Strong freelancing and startup opportunities.

Curriculum Overview

◆ Module 1 : Web Development Fundamentals

- Introduction to web technologies
- How websites and web apps work
- Client-server architecture
- Internet & browser basics

◆ Module 2 : Frontend Development (HTML, CSS, JavaScript)

- HTML5 fundamentals
- CSS3 styling & responsive design
- Flexbox & Grid
- JavaScript basics
- DOM manipulation
- ES6 concepts

◆ Module 3 : Frontend Frameworks

- Introduction to React.js
- Components & Props
- State & Lifecycle
- React Hooks
- Routing in React
- API integration

◆ Module 4: Backend Development

- Introduction to Node.js
- Express.js fundamentals
- Server creation
- Middleware
- RESTful APIs
- Authentication & Authorization

◆ Module 5: Database Management

- Introduction to databases
- MongoDB basics
- CRUD operations
- Database relationships
- Firebase integration basics

◆ Module 6: API Development & Integration

- REST API architecture
- JSON handling
- API testing with Postman
- Connecting frontend with backend

◆ Module 7: Authentication & Security

- User authentication systems
- JWT authentication
- Password encryption
- Security best practices

◆ Module 8: Deployment & Hosting

- Git & GitHub
- Deployment using Vercel/Netlify
- Backend deployment
- Domain & hosting basics

Tools, Languages, Platforms



Sample Projects

1. E-Commerce Web Application

- Skills Involved: MERN Stack development, Authentication system, Payment integration, Database management.
- Description: Develop a complete online shopping platform where users can browse products, add items to the cart, and place orders. Admin features include product management and order tracking.

2. Social Media Platform

- Skills Involved: Frontend & backend integration, Real-time database handling, Authentication system, API development.
- Description: Build a social networking platform where users can create accounts, share posts, like content, and interact with others in real time.

3. Task Management System

- Skills Involved: CRUD operations, React state management, REST API development, Database integration.
- Description: Create a productivity application where users can manage daily tasks, update progress, and organize workflows efficiently.

4. Online Learning Platform

- Skills Involved: Full stack web development, Video/content management, Authentication & dashboards, Backend APIs.
- Description: Develop an e-learning platform where students can enroll in courses, watch lessons, and track progress.

5. Real-Time Chat Application

- Skills Involved: Socket.io integration, Real-time communication, Backend server development, User authentication.
- Description: Build a live messaging platform that allows users to send and receive instant messages in real time.

6. Portfolio & Blogging Website

- Skills Involved: Responsive web design, CMS-like functionality, CRUD operations, Deployment.
- Description: Develop a personal portfolio and blogging platform where users can publish articles and showcase projects.

Career Opportunities

By completing our Data Science Program, you'll be ready to take on key roles in the industry, including:

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

Hiring Companies:

Our graduates have found opportunities at top companies like:

- Flipkart
- VIOS
- Wipro
- TCS
- Cognizant
- Startups and Fintech Companies

Certificates

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CERTIFICATE OF COURSE COMPLETION

This is to certify that

[Recipient Name]

has successfully completed the [Course Name] course at Alocodes from [Start Date] to [End Date]. During this period, they demonstrated dedication, consistency, and a strong commitment to learning and skill development

Authorized Signatory
Academic Head

Ministry of MSME, Govt. of India

CERTIFICATE ID : AL/26/712358424563

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CERTIFICATE OF INTERNSHIP COMPLETION

This is to certify that

[Recipient Name]

has successfully completed the internship as a [Role] at Alomonx Technology from [Start Date] to [End Date]. During this period, they demonstrated dedication, professionalism, and strong technical skills.

Authorized Signatory
Academic Head

Ministry of MSME, Govt. of India

CERTIFICATE ID : AL/26/712358424563

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Phone: 62067 57371

Email: alocodes.edu@gmail.com

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