

Your Code, Your Legacy

Course Highlights

Online Courses and Classes

Offer a wide range of online courses on various subjects, skill sets, and academic levels. These courses can include video lectures, quizzes, assignments, and interactive discussions.

Live Webinars and Virtual workshops Offer a wide range of online courses on various subjects, skill sets, and academic levels. These courses can include video lectures, quizzes, assignments, and interactive discussions.

Skill Development and Training

Offer skill-specific training programs, such as coding, language learning, digital marketing, and more.

Personalized Learning Develop adaptive learning platforms that adjust the content and difficulty level based on a student's progress and performance.

Certification and Accreditation

Provide certification courses that lead to recognized qualifications, which can enhance a learner's resume or professional credentials

CURRICULUM

Month 1:

1. Introduction to Front-End Development: Front-End Understanding how the web works Introduction to HTML, CSS, and JavaScript HTML Fundamentals

2. Basic structure of HTML documents Working with tags, attributes, and semantic elements CSS Basics

3. Styling HTML elements with CSS Selectors, properties, and values Box model and layout JavaScript Essentials

4. Variables, data types, and operators Control structures: conditionals and loops Functions and scope

5. Introduction to Back-End Development Server-client architecture Basics of HTTP and APIs Introduction to Node.js Setting up Node.js environment Modules, NPM, and package.json Building a Simple Server 6. CSS Preprocessors and Styling Frameworks: Introduction to Sass/SCSS Variables, mixins, and nesting Using CSS frameworks like Bootstrap

7. Front-End Frameworks (e.g., React): Setting up a React application Components, props, and state **React Router for navigation**

8. State Management with Redux:: Redux principles and concepts Actions, reducers, and the store Connecting Redux to a React app

Advanced Front-End Concepts:

Context API for state management (in addition to Redux) CSS-in-JS libraries (e.g., styled-components) Performance optimization techniques

10.Front-End Testing

Unit testing with Jest and React Testing Library Testing components and hooks Integration testing for complex scenarios

Month 2:

11.Introduction to Back-End Development: Back-End Basics (Node.js and Express.js): Introduction to Node.js and server-side programming Setting up an Express.js server Routing, middleware, and error handl

12. RESTful API Design and Development: Setti - Principles of RESTful architecture Designing API endpoints and resources CRUD operations and request handling

13. Authentication and Authorization: User authentication using JWT Role-based access control Securing API endpoints and routes

14. Databases and SQL:
Relational database concepts
Creating and querying databases using SQL
Database design and normalization

15. NoSQL Databases and MongoDB:
Introduction to NoSQL databases
MongoDB installation and CRUD operations
Mongoose ODM for MongoDB integration

16 Advanced Database Concepts:
Database indexing and optimization
Transactions and ACID properties
Connecting to multiple database types (SQL and NoSQL)

17 API Testing and Validation:
Writing unit tests for API endpoints
Validating requests and responses
Testing tools like Postman and Jest

18 Server-Side Validation and Error Handling:
Data validation and sanitization
Handling and reporting errors gracefully
Implementing custom error handling middleware

19 Server Management and Deployment:
Hosting options (VPS, cloud platforms)
Deploying a Node.js app to a server
Managing environment variables and configuration

20 Version Control with Git:

Understanding Git concepts (commits, branches, merges) Collaborative workflows (feature branches, pull requests) Resolving conflicts and code reviews

Month 3:

21.Web Security Principles::

Common web vulnerabilities (XSS, CSRF, SQL injection) Best practices for securing web applications Implementing security headers

22. Front-End Build Tools (Webpack): Introduction to Webpack and its role Configuration and optimization Bundling assets and code splitting

23. Continuous Integration and Deployment (CI/CD):
Setting up automated builds with CI tools
Automating testing and deployment pipelines
Deploying to various environments (development, staging, production)

24. Microservices Architecture: Understanding microservices and monoliths Communication between microservices Scaling and load balancing

25. Containerization with Docker:
Introduction to Docker and container concepts
Creating Docker images and containers
Docker Compose for managing multi-container applications

26. Front-End Performance Optimization:
 Optimizing asset loading and caching
 Lazy loading and code splitting
 Performance auditing tools (Lighthouse, PageSpeed Insights)

27. Real-Time Communication (WebSockets):
Introduction to WebSockets
Setting up real-time communication
Building a real-time chat application

28. GraphQL Fundamentals: Introduction to GraphQL and its advantages Creating GraphQL schemas and resolvers Querying data using Graph

29. Serverless Architecture:

Understanding serverless concepts Building serverless APIs with AWS Lambda Pros and cons of serverless architecture

30. Advanced Testing and Debugging:
Integration testing with tools like Supertest
Debugging performance issues and memory leaks
Load testing and stress testing

3 months of program



Practical learning

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PYTHON

3 Certificates





ELEGANT CLASSES

Resume building





Interview Preparation





Bootcamps

