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The Ultimate Learning Path in 2023

To Become a Full Stack Developer

EXPECTED EFFORT : 6 HOURS/WEEK

You will gain the necessary skills and knowledge to become a proficient Full stack developer.

You will also learn advanced topics such as performance optimization, testing, and documentation. Throughout the course, you will work on hands-on projects to apply your skills and build a skillset.

STAGE 1

Introduction to Web Development

- Overview of web development
- Clearing our objectives
- Brief Understanding of frontend and backend
- Setting up a development environment
- Introduction to HTML, CSS, and JavaScript

STAGE 2

HTML Fundamentals

- Introduction to HTML
- HTML tags and elements
- Working with text and links
- Creating lists and tables
- HTML forms and input elements

- Semantic HTML tags for improved structure
- Deployment of HTML project

STAGE 3

CSS Styling and Layout

- Introduction to CSS
- CSS selectors and properties
- Styling text, colors, backgrounds, and borders
- Box model and layout techniques
- CSS positioning and floating elements
- Flexbox and CSS Grid for responsive design
- Introduction to the Bootstrap framework for rapid styling

STAGE 4

JavaScript Fundamentals

- Introduction to JavaScript
- Variables, data types, and operators
- Control flow statements (conditionals and loops)
- Functions and scope
- Working with arrays and objects
- Manipulating the Document Object Model (DOM)
- Handling events and event listeners
- Introduction to JSON for data exchange
- Asynchronous Programming fundamentals

STAGE 5

Front-End Development with React

- Introduction to React and JSX
- Creating React components
- Managing component state and props
- React component lifecycle
- Handling user input with forms and hooks
- Routing and navigation with React Router
- State management with Redux
- Building a complete project with React

STAGE 6

Version Control (GitHub)

- Introduction to Version Control
- Setting up GitHub
- Understanding of major Git Commands
- Connecting our Codebase with GitHub

STAGE 7

Back-End Development with Node.js and Express

- Introduction to Node.js and NPM
- Setting up a basic Express.js server
- Routing and middleware
- Working with databases (MongoDB) using Mongoose
- User authentication and authorization
- Error handling and logging
- File uploads and handling

STAGE 8

Building APIs and Full-Stack Development

- Creating RESTful APIs with Express.js
- Implementing CRUD (Create, Read, Update, Delete) operations
- Data validation and error handling
- Frontend-backend communication and integration
- Rendering lists, sorting, and pagination
- User authentication and access control
- Deployment and hosting of full-stack applications

STAGE 9

Advanced Concepts and Optimization

- Performance optimization techniques
- Caching strategies for improved speed
- Testing Node.js and React applications

- Documentation and API development

STAGE 10

Major Project and Finalization

- Project requirements and planning
- Frontend development with React
- Backend development with Node.js and Express.js
- Database integration and management
- User authentication and authorization
- Implementation of additional features and functionalities
- Testing, debugging, and performance optimization
- Deployment and finalization of the project

STAGE 11

Resume building and Job Application guidance

- Learn trending resume building techniques
- Get latest templated designs
- Do’s and Don’ts of job filling practices
- Internship guidance

Let us build your Full Stack Development Career Brighter!

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