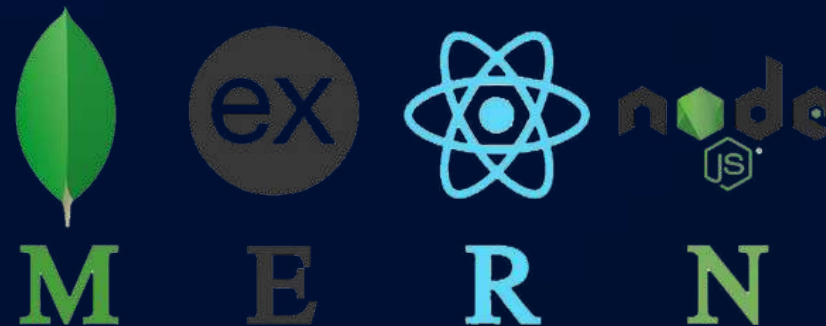


Full-Stack Web Development Certificate Course

Instructed By : Malith Dilshan (Software Engineer, BSc in Information
Technology, Data Science (UG))



About The Instructor

- Experienced instructor with hands-on teaching for aspiring developers.
- Pursuing a BSc in Information Technology, specializing in Data Science, with a strong focus on cutting-edge technologies.
- Proven track record in collaborating on diverse software engineering projects, delivering practical solutions and innovations.



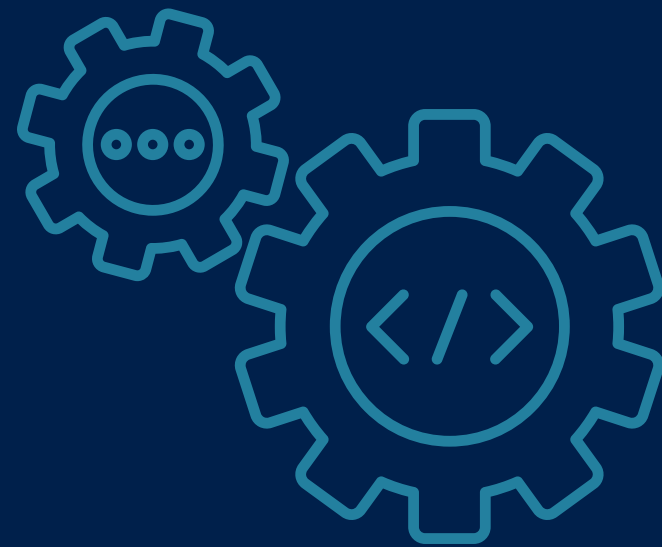
Orientation Program

- Introduction to web 1.0
- HTML
- CSS
- Javascript
- Introduction to web 2.0
- Introduction to the AI



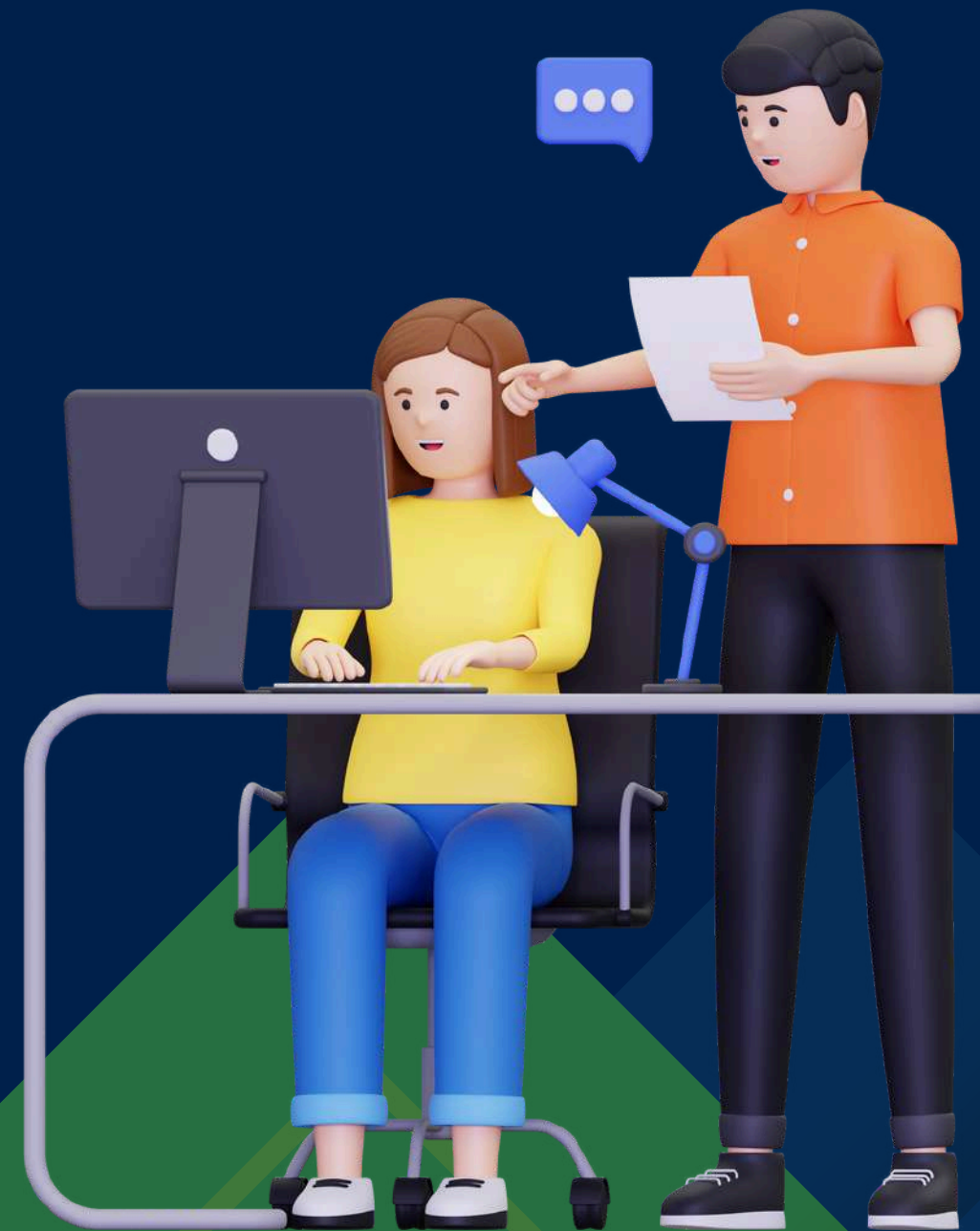
Setting up the environment

- Introduction to the project.
- Setting up necessary software.
- Introduction to NodeJS.
- Node version manager.



Planning and software architecture.

- Requirement gathering and understanding.
- Planning the software architecture.
- Understanding the development phases.
- JSON



Software UI designing.

- Figma and UI design basics.
- Tailwind css and UI libraries.
- Introduction to ReactJS.
- Best practices in UI design.



Basic front-end development.

- Recap on HTML, CSS and javascript.
- Initializing the project.
- Identifying the project structure.
- Introduction to React.



GitHub and version control systems.

- Introduction to github.
- Evolution of the github throughout past years.
- Branching, commits and github related theories.
- GitHub in practice.



Front-end development.

- React components.
- React hooks and state management.
- Routing and navigation management.
- Introduction to UI libraries.



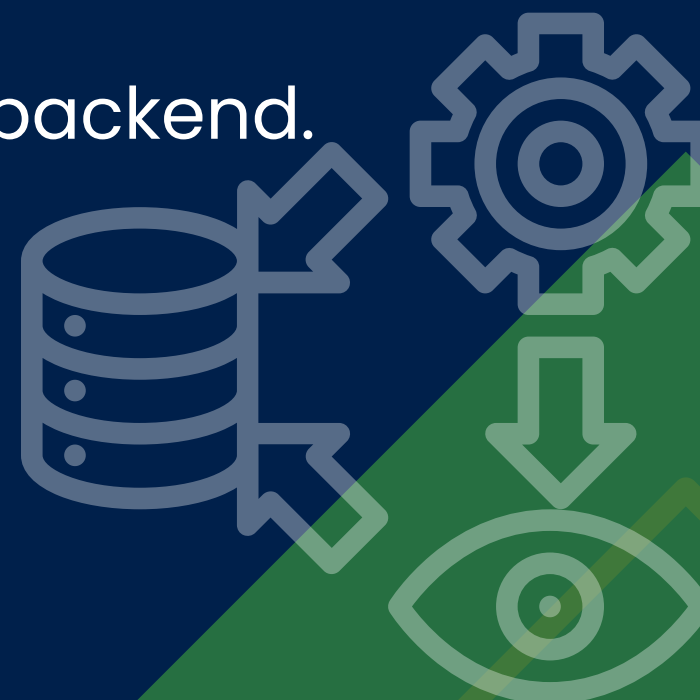
Rest API architecture.

- Java Script Object Notation.
- Introduction to Rest API.
- HTTP request types and the best practices.
- Introduction to the postman tool.



Backend development.

- Introduction to NodeJS backend development.
- MVC architecture.
- MongoDB database introduction.
- Middlewares and JWT authentication.
- Authorization and authentication in the backend.
- API testing with postman tool.



Front-end backend integration

- Axios
- Cors
- React useEffect hooks and its usage.
- Lazy loading techniques.



Project quality assurance

- Software testing and validations.
- Writing test cases in an industrial manner.

Deployment technologies.

- Deployment of the software using Vercel, Netlify and Render.



LET'S BEGIN !

