

Omkar Mandhare

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Objective:

I am a dedicated and versatile full-stack developer with experience in building dynamic web applications using the MERN stack. I am passionate about creating innovative solutions that solve real-world problems through efficient, scalable code. With a strong background in both front-end and back-end technologies, I am proficient in working on projects from start to finish. Constantly seeking new challenges, I am eager to contribute to projects that push the boundaries of technology and improve user productivity.

Education:

BBA (Computer Application) | 2022 – 2025

Ashoka Centre for Business and Computer Studies, Nashik (SGPA 8.97)

12th HSC | passing year 2021

KTHM College, Nashik (Percentage: 70%)

10th SSC | passing year 2019

Adarsh Madhyamik Vidyalaya (Percentage: 72%)

Skills:

- **Programming Languages:** TypeScript, JavaScript, HTML, CSS, SQL
- **Frameworks & Libraries:** Next.js, Express.js, React.js, Node.js, Tailwind CSS, Mongoose, Prisma
- **Database:** MongoDB, PostgreSQL
- **Developer Tools & Platforms:** Git, GitHub, Vim/Neovim, tmux, VS Code, Postman
- **Core Concepts:** Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), JWT (JSON Web Tokens), DRY Principle, MVC architecture
- **Soft Skills:** Problem-Solving, Time Management, Adaptability, Critical Thinking, Attention to Detail

Projects:

AI Powered UML Diagram Generator | MERN Stack in Typescript(MongoDB, Express JS, React JS, Node JS, Tailwind CSS)

- Build an AI-powered UML Diagram Generator using the MERN stack to convert user prompts into UML diagrams.
- Utilized the Claude AI API to generate PlantUML code for diagram creation.
- The project includes a credit-based system where users receive free credits initially and can purchase additional credits to generate more diagrams.
- Using MongoDB to store user data, prompts, generated diagrams, and credit balances.
- The backend is built with Node.js and Express to handle API requests, AI interactions, and credit management.
- Email authentication is integrated using nodemailer to verify users and manage accounts securely.

Faculty Evaluation Platform | Node JS, Express JS, MongoDB, Zod, JWT, HTML, CSS, JS

- Developing a faculty evaluation platform to create monthly reports of faculty's performance.
- Using Node.js and Express.js for backend operations, including route handling, web server management, and database interactions.
- Implementing Zod schemas for robust input validation and error handling.
- Utilizing JWT (JSON Web Tokens) and cookies to manage user sessions securely.
- Creating MongoDB schema using Mongoose to manage data structure.
- Storing user, admin information, and evaluation inputs in MongoDB to facilitate monthly report generation.
- Designing user friendly UI using HTML, CSS and JS for dynamic DOM Manipulation.