

Om Shelke

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Education

Vellore Institute of Technology

Bachelor of Technology in Computer Science and Engineering

Aug 2022 – May 2026

CGPA: 8.96

Work Experience

Software Developer Intern – Deloitte.

May 2025 – Aug 2025

- Engineered a scalable skill-badge platform supporting 26,000+ employees and built a badge awarding system for specific skills, which was triggered by user application and admin approval. This was supported by a scalable and normalized PostgreSQL schema for efficient data management, accelerating internal upskilling.
- Crafted a scalable and maintainable MVC backend using Node.js and Express, delivering 70%+ of core functionalities to support high-performance operations.
- Optimized database operations using Sequelize ORM, reducing overall development time by 30%.
- Integrated a GenAI-powered feature to auto-generate context-aware assessment questions and created an interactive assessment engine to generate tailored assessments based on users' prior proficiency, which streamlined content creation.

Projects

AirHaven

Feb 2024 – Jun 2024

Backend Development: Node.js, Express.js, RESTful APIs, MySQL, Sequelize ORM

- Architected a robust microservices ecosystem comprising 5 services: Flights and Search, Authentication, Booking, Reminder, and API Gateway, streamlining database operations with Sequelize ORM.
- Engineered a scalable backend system enabling 10+ core features including flight booking, reminders, and advanced queries, and secured authentication workflows using JWT and hashed credentials.
- Leveraged RabbitMQ for asynchronous message handling, resolving email dispatch bottlenecks and increasing service uptime.
- Orchestrated complex inter-service workflows by routing and centralizing requests through an API Gateway, optimizing booking flow, seat assignments, and notifications.

CodeHaven

May 2025 – Present

Full Stack Development: React.js, Node.js, Express.js, Docker, WebSockets, Zustand

- Built a full-stack collaborative code editing platform with 4 core sections: file explorer, Monaco-based editor, terminal, and live browser preview, leveraging Zustand for smooth global state management of editor state, file structures, and active tabs.
- Enabled seamless real-time collaboration via WebSockets, synchronizing code, files, and terminal outputs across users.
- Provisioned containerized execution environments using Docker to isolate and securely run user-defined applications.
- Crafted an interactive file system UI with support for 3 essential operations—create, rename, and delete—and configured a debounced auto-save mechanism (2000ms delay) to reduce backend load during high-frequency edits.

Technologies

Languages and Frameworks: JavaScript, C++, Node.js, Express.js, React.js

Technologies and Tools: Git/GitHub, RESTful APIs, WebSockets, Docker, Zustand, Sequelize ORM

Databases and Core Concepts: MySQL, PostgreSQL, Microservices, DBMS, OOPs

Certifications

- The Complete 2024 Web Development Bootcamp by Dr. Angela Yu, Udemy
- C++ Course - Learn the Essentials by Scalar

Achievements and Extracurriculars

- Finalist, Deloitte Hackspllosion Hackathon 2025 – Among top 15 teams from 2800+ teams and 11,700+ participants nationwide.
- Solved 800+ coding problems across major coding platforms; Codeforces rating: 1200+ achieved.
- Ranked under 700 among 50,000+ participants in PW Skills National Coding Contest 2023.
- Led Tech Team at E-Cell VIT Bhopal – Directed a team of 5 to develop the official E-Cell website.
- Secured a top-20 position out of 400+ college teams in SIH 2024, after successfully clearing 3 internal selection rounds.