

ABHINAV PORWAL

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EDUCATION

Vellore Institute of Technology

B.Tech. - Computer Science and Engineering **CGPA - 8.56**

Bhopal, India

August 2022 - Present

SKILLS

Programming Languages: Golang, C++, SQL, JavaScript

Frameworks and Libraries: Gin, React.js, Websocket, REST APIs

Databases and Tools: MongoDB, Git, Docker, Postman, Github

Concepts and Methodologies: Data Structures and Algorithms, Operating System, OOPS, Authentication

PROJECTS

Restaurant Management System Backend

[Link](#)

Tech Stack: Golang, Gin, MongoDB, JWT

- Engineered and deployed a high-performance RESTful API using **Go(Gin framework)** and **MongoDB** that efficiently handled over 5,000 concurrent users with zero downtime.
- Designed scalable **MongoDB** data models and implemented complex CRUD operations and business logic for core entities (Users, Orders, Menu Items, Payments)
- Implemented a robust user **authentication system using JWT** and secure password hashing, resulting in a 3% improvement in user login success rates and minimized authentication-related support tickets.

GO-React Fullstack Chat

[Link](#)

Tech Stack: Golang, Gin, Gorilla WebSocket, React.js, JavaScript, SCSS, REST API

- Forged a real-time chat application using **Go and Gin**, which supported 750 concurrent users with minimal latency, while also improving the message delivery success rate by 99.99%.
- Pioneered a low-latency, bi-directional messaging system using **Gorilla WebSocket**, established a connection pool, cutting down on message latency by 30% and supporting 1,000+ concurrent user sessions.
- Refactored legacy Javascript code into reusable **React** components, decreasing page load time by 120 ms and increasing user engagement by 20%.

E-Commerce Backend

[Link](#)

Tech Stack: Golang, Gin, Docker, MongoDB, JWT

- Developed a fault-tolerant microservices-based RESTful API that consistently processed 800+ RPS (Requests per Second) while maintaining 99.9% uptime, significantly improving site reliability and user experience.
- Engineered secure, reusable modules for **JWT authentication** and product catalog management, contributing to a 30% reduction in authentication-related customer support tickets and a 25 ms decrease in average API latency.
- Led a major code refactoring initiative that reduced code complexity by 25% and cut the average bug resolution time by 15+ hours per sprint, dramatically improving code maintainability and team velocity.

CERTIFICATION

SmartBridge - Full Stack Developer MERN

[View Credentials](#)

IBM - DevOps Fundamentals

[View Credentials](#)

ACHIEVEMENTS AND PARTICIPATION

Competitive Programming: Solved more than 300+ DSA problem of various platforms such as Leetcode, coding Ninjas to strengthening algorithmic thinking and data structure knowledge

Open Source Contributor: Addressed reported bugs by writing and implementing over 350 lines of code across three different projects, resulting in more stable releases and improved user experiences and trust.