Vedant Pawar

Full Stack Developer

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Summary

Full Stack Developer skilled in building production-grade MERN applications including a microservices-based canteen management system (Node.js, PostgreSQL, Redis, RabbitMQ, Docker) and a secure offline payment platform with encryption. Strong in DSA (Java), with working exposure to Generative AI and RAG. JS/Node-stack engineer comfortable ramping into new frameworks and stacks (e.g. .NET Core, SQL Server) as needed. OCI certified in Application Development and Generative AI.

Skills

Languages: Java, C++, JavaScript, Python
Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS
Backend: Node.js, Express.js, REST APIs, Socket.io
Database: MongoDB, PostgreSQL, MySQL, Redis
DevOps & Tools: Docker, RabbitMQ, AWS, Git, GitHub, Postman, AI-assisted development
AI/GenAI: Generative AI, LLM Engineering, RAG (Retrieval-Augmented Generation), QLoRA Fine-Tuning, Agentic AI

Projects

CRPF Canteen Management System | *Next.js, Node.js, PostgreSQL, Redis, RabbitMQ, Docker*

- Built a real-time **microservices-based canteen system** for CRPF canteen facilities covering soldier ordering, kitchen tracking, and admin inventory management.
- Implemented live order tracking via **Socket.io** and an event-driven inventory pipeline using **RabbitMQ** to auto-update stock and trigger low-stock alerts.
- Used **Redis** caching in the Menu Service and **JWT-based RBAC** across the API Gateway for secure, low-latency access control.
- Containerized all services with **Docker**; integrated **Prometheus/Grafana** for real-time monitoring and observability.

UPI Offline Mesh | *MERN, Redis, MongoDB, Socket.io*

- Engineered **hybrid RSA-2048 + AES-256-GCM encryption** for an offline-first UPI payment simulator, ensuring bridge nodes only ever handle ciphertext and packets can't be tampered with in transit.
- Designed a **peer-to-peer mesh network** that routes encrypted transactions offline until a bridge node reaches the internet for settlement.
- Prevented double-spending using **Redis-backed idempotency** and ensured atomic balance updates via **MongoDB ACID transactions**.
- Built a real-time **React dashboard** with Socket.io to visualize the gossip mesh, bridge uploads, and live settlement ledger.

MockMate | *MERN, TypeScript, Gemini AI, Azure AI*

- Developed an **AI-powered mock interview platform** generating role-specific questions (DSA, System Design, HR) using the **Gemini AI API**.
- Integrated **Azure AI Speech-to-Text** for real-time voice transcription and a **Monaco-based code editor** with Judge0 for live code execution.
- Built a smart resume analyzer and performance analytics dashboard (Recharts) to surface weak topics and generate AI flashcards.

Certifications

- **Oracle Cloud Infrastructure 2025 Certified Generative AI Professional**
- **AI Engineer Core Track: LLM Engineering, RAG, QLoRA, Agents — Udemy (2026)**

Education

B.Tech **Expected: 2027**

Dr. Babasaheb Ambedkar Technological University