

Abhijeet Ravindra Bhosale

☎ 8263811035 | ✉ abhijeetbhosale540@gmail.com | in abhijeetbhosale | 🌐 Abhijeet212004 | </> Leetcode

EDUCATION

Pune Institute of Computer Technology

B.E. in Information Technology

2023 - 2027

9.378 CGPA

EXPERIENCE

National Payments Corporation of India (NPCI) (Mumbai, India)

July 2026 – Present

- Developed mobile-side infrastructure for **Post-Quantum Cryptography (PQC)**, enabling secure execution of **ML-KEM**, **ML-DSA**, **SLH-DSA**, and **WBSL-DSA** algorithms under mobile resource constraints.
- Architected an **Offline CBDC (Digital Rupee)** solution for secure on-device storage and transfer of digital value, incorporating transaction validation, synchronization, and **double-spend prevention**.
- Contributed to **UPI Lite** and **UPI LiteX**, working on secure payment processing, offline/low-connectivity transaction flows, and reliable transaction reconciliation.

Scriptlanes Full-Stack Developer Intern (Hybrid, Pune, India)

June 2025 – April 2026

- Built and deployed full-stack features using **Next.js**, **Prisma**, **PostgreSQL**, and **TailwindCSS**, improving platform usability for **1K+** users.
- Implemented an **OpenAI-powered chatbot**, boosting user engagement by **30%** in beta testing.
- Led a **3-member Agile team** to deliver chatbot features ahead of schedule.

TechFiesta Tech Lead (In Person, Pune, India)

- Optimized backend by migrating to **GCP** and containerizing services with **Kubernetes**, cutting latency by **85%**.
- Implemented **Redis caching**, reducing database hits and improving API throughput during peak traffic.
- Scaled infrastructure to reliably handle **11K+ requests**, ensuring zero downtime and smooth event operations.
- Maintained deployments at techfiesta.pict.edu and contributed to backend development on GitHub [repo](#).

PROJECTS

DevOps Universe : AI-Native DevOps Platform (*React.js, Node.js, Docker, Kubernetes, Terraform, MCP, LLMs*) 🔒

- Architected a **visual DevOps orchestration platform** with a **DAG-based workflow engine**, integrating **20+ DevOps tools** (GitHub, Docker, Kubernetes, AWS, Terraform, Jenkins, ArgoCD), reducing setup time by **70%**.
- Built an **agentic DevOps control plane** with **MCP tool-calling** for autonomous **repository analysis**, **workflow/IaC generation**, **infrastructure provisioning**, **deployment**, and **log diagnostics**.
- Engineered an **event-driven CI/CD engine** with webhooks, parallel DAG execution, conditional flows, retries, rollbacks, and **real-time Socket.IO telemetry**, enabling zero-touch production deployments.

RupeeMind : Programmable Money Wallet (*React Native, Java/Dropwizard, PostgreSQL, Razorpay, Cashfree*) 🔒

- Built a **programmable rule engine** providing **8 independent spending safeguards** (limits, time-locks, merchant blocks, category locks) enforced on every transaction, addressing the lack of built-in spend controls in digital payments.
- Designed **Smart Vaults** that lock funds for a specific purpose (rent, fuel, food), ensuring money can only be spent for its intended use and eliminating manual budgeting.
- Implemented a **Voucher Engine** enabling category, merchant, location, and expiry-based spending restrictions, allowing users to control exactly how transferred money can be spent.

AlertMate : AI-Powered Safety Application (*React Native, Node.js, TensorFlow, LoRa, IoT Sensors*) 🔒 | 📄

- Developed an **AI-driven safety engine** recommending **88% safer routes** using crime maps, medical facility density, and time-based risk patterns.
- Built an **IoT vitals monitoring system** (heart rate + SpO₂) with TensorFlow-based anomaly detection to trigger automated SOS alerts.
- Integrated **LoRa-based offline emergency communication** enabling long-range (**up to 15 km**) alert transmission in no-network zones.

TECHNICAL SKILLS

Languages: Java | Kotlin | Rust | C++

CS Fundamentals: Object-Oriented Programming | Database Management Systems

Back-End & APIs: Spring Boot | Dropwizard | Node.js | Express.js | Kafka | REST APIs | GraphQL | Swagger | EJS

Databases: PostgreSQL | MySQL | MongoDB | Prisma

Front-End & Mobile: React.js | React Native | Next.js | JavaScript | HTML | CSS | Tailwind CSS

DevOps: Docker | Kubernetes | AWS | GCP | Terraform | Jenkins | GitHub Actions | Helm | ArgoCD | Ansible | CI/CD Pipelines

AI / ML: AI Agents | Multi-Agent Systems | MCP | RAG | Tool Calling | Agentic Workflows | LangChain | Pinecone

ACHIEVEMENTS

- Winner of **RBI Global Hackathon 2025 (HARBINGER)** against national and international banks; awarded **45 lakh**.
- Winner of **INC 25** and **INC 24**
- Finalist in the **TIGC Hackathon**, awarded **300 AUD**, and building **AlertMate**, a women safety project.
- Finalist of **Smart India Hackathon (SIH) 2025** and **Techfest 2025**
- Finalist of **imobilothon5.0** (Hackathon organized by Volkswagen)