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LinkedIn | GitHub | Portfolio | LeetCode

EDUCATION

National Institute of Technology Meghalaya — Sohra, India
B.Tech in Computer Science and Engineering **CGPA: 9.1** — 2023 – 2027

EXPERIENCE

Software Engineer | **ForkContext** | Certificate **Jan 2026 – Aug 2026**

- Led **end-to-end engineering** of ForkContext, a scalable **web and browser extension platform** built with **React, TypeScript, and WXT**, enabling persistent AI memory, intelligent context retrieval, and cross-platform workflow continuity.
- Architected **scalable backend services for 10,000+ users** using **FastAPI, PostgreSQL, Redis, ARQ Workers, Docker, and GCP**, isolating latency-sensitive APIs, cron jobs, and asynchronous workloads, built **CI/CD pipelines** with automated testing, **Chatbot**, containerized builds, deployments, and production smoke tests.
- Optimized **API performance and data retrieval** using **pgvector indexing, Redis caching, and asynchronous processing**, targeting **P95 latency under 1 second** under concurrent workloads.
- Implemented **2035+ automated test checks** across user/admin systems, including **unit, integration, gateway, Playwright E2E, load, and performance testing**, tracked **P50/P95 latency, throughput, and error rates**, designing stateless services for horizontal scalability, fault tolerance, and reliability.
- Owned **service decomposition, asynchronous processing, scalability, and reliability**, developed approximately **80% of core features** and led **production hardening and launch**.

Project Intern | **Oracle** | Certificate **Jul 2026 – Sep 2026**

- Collaborated with my mentor to engineer a production-focused **GenAI multi-agent system** integrating **30+ tools** to automate customer issue detection, investigation, prioritization, and resolution.
- Architected **multi-channel workflows** across Chat, Email, Smart Actions, and social platforms, enabling proactive reputation monitoring, risk assessment, and automated customer engagement.
- Integrated **Oracle Fusion Applications, AI Agent Studio, FastAPI, and OCI**, implementing secure **SSO authentication**, API integrations, and cloud deployment.
- Optimized **agent execution workflows, API performance, and tool orchestration** to reduce processing overhead and improve response latency, scalability, and reliability.
- Implemented **human-in-the-loop escalation**, automated follow-ups, verification workflows, and **unit/integration testing** for reliable end-to-end issue resolution.

Open Source Contributor | *PostgreSQL, OpenStreetMap (OSM)* **Dec 2025 – April 2026**

- Contributed to **PostgreSQL** (GSoC Org), Investigated and resolved PostgreSQL core issues in C, contributing fixes through production code review and testing.
- Contributed to **OpenStreetMap** (GSoC Org), fixing high-priority JavaScript issues and collaborating with international maintainers on production PRs.

PROJECTS

Netlify-Style Hosting Platform | *React, AWS, Docker, Kafka, Redis, ClickHouse, Socket.io, PostgreSQL, Prisma, Reverse Proxy* Live

- Built an **end-to-end Netlify-style hosting platform** that automates **Git repository deployments** using **PostgreSQL and Prisma** for project management, **Docker-based isolated build workers**, and **Kafka-driven asynchronous deployment workflows**.
- Implemented **real-time deployment logs** using **Socket.io** with polling fallback, stored build artifacts in **AWS S3**, used **ClickHouse for deployment analytics**, and built a **Reverse Proxy for subdomain-based routing**; containerized services with **Docker** and deployed workloads using **AWS ECR and ECS**.

Smart Campus Platform | *React, Node.js, Express, MongoDB, Socket.io, Botpress, AI/ML, Tailwind CSS* Live

- Built a full-stack campus platform with **15+ services**, including Emergency SOS, Bus Booking, Mentorship, Lost Found, DC++, Placement, and learning resources. Built **ML-based course recommendations** and a Botpress chatbot for campus queries.
- Developed secure and real-time features using **React, Node.js, Express, MongoDB, Socket.io, and JWT authentication**, integrated Cloudinary for media management, and deployed the **frontend and backend end-to-end**.

Built **20+ full-stack projects**, including collaborative editors, real-time chat, and e-commerce platforms using **React, Node.js, WebSockets, MongoDB, and REST APIs**. Live

SKILLS

Languages: Python, C/C++, SQL, TypeScript, JavaScript
CS Fundamentals: Data Structures, Algorithms, OOP, Operating Systems, Computer Networks, DBMS, Complexity Analysis
Systems Engineering: Linux, Distributed Systems, System Design, REST APIs, Asynchronous Processing, Scalability, Fault Tolerance
Backend & Databases: FastAPI, Node.js, Express, PostgreSQL, Redis, MongoDB, Prisma, Clickhouse
Cloud & DevOps: AWS (S3, ECR, ECS), GCP, Docker, Kafka, CI/CD, Git, SQS, DynamoDB, Lambda, AWS CDK
AI/ML: Machine Learning, Generative AI, RAG, AI Agents, LangChain, OpenAI APIs, Vector Embeddings
Testing & Monitoring: Pytest, Unit Testing, Integration Testing, Load Testing, Performance Monitoring, Playwright, SDLC

ACHIEVEMENTS & CERTIFICATIONS

Rank 1 – GFG Institute: Ranked 1st among **500+ students**; solved **1200+ DSA problems** across algorithms and data structures.[Link]
Hackathon Winner & CTF Finalist: Secured **nice place** in Game of Code and finalist position in Cognitia Cybersecurity CTF. [Link]
Certifications: Full-Stack Development, Machine Learning, and Cloud Computing. [Link]