

Summary

Production software engineer specializing in real-time backends, distributed systems, and LLM-powered infrastructure. GSoC 2026 candidate – contributed to CNCF Kmesh (eBPF CI/CD pipeline engineering) and Rocket.Chat (distributed job orchestration architecture). Targeting high-impact SDE, AIML roles in backend engineering, cloud infrastructure and AI-integrated systems.

Education

VNR Vignana Jyothi Institute of Engineering & Technology

B.Tech – Computer Science & Engineering (AI & ML Specialization) | CGPA: 8.0/10

Hyderabad, India

Sep 2023 – May 2027

Technical Skills

Languages: C++, Java, Python, JavaScript (ES6+), SQL

Java Ecosystem: Core Java, Spring Boot, Spring MVC, Hibernate/JPA, Maven, JUnit

Frontend: React.js, TypeScript, HTML5, CSS3

Backend & APIs: Node.js, Express.js, REST APIs, WebSockets, Socket.io, Postman

Databases & Cache: MongoDB, PostgreSQL, MySQL, Redis (pub/sub, caching, debounce)

DevOps & Cloud: Docker, AWS Cloud, Nginx, GitHub Actions, CI/CD, Linux

AI & Systems: RAG, Vector Embeddings, LLM Integration, LangChain, Git, OOP, OS, DBMS, CN

Tools: Git, Postman

Open Source Engineering

Cloud Native Computing Foundation (CNCF) – Kmesh [GitHub]

Remote

Open Source Contributor | GSoC 2026 Application – eBPF Service Mesh Infrastructure

Apr – May 2026

- Refactored Kmesh's multi-layered build architecture (`Makefile`, `hack/utls.sh`, `build.sh`) introducing target-selective compilation via `BUILD_TARGET`, enabling localized builds of individual components (e.g., `kmeshctl`) without full-project rebuilds.
- Reduced developer iteration time by conditionally bypassing global binary installation (`make install`) and container file extraction (`copy_to_host`) during targeted builds.
- Diagnosed and resolved GitHub Actions CI failures from build-matrix variable collisions (`TARGET` vs `BUILD_TARGET`) and `make gen-check` formatting checks; proposed a React/TypeScript dashboard (Issue #1552) with React Flow topology mapping and Waypoint proxy provisioning.

Rocket.Chat [GitHub]

Remote

Open Source Contributor | GSoC 2026 Application – Agenda Jobs Admin Dashboard

Apr 2026

- Identified and optimized sequential MongoDB query bottlenecks in the Node.js/Meteor backend, improving data-fetching efficiency during Agenda-backed background job execution.
- Authored a technical proposal for an Agenda Jobs Admin Dashboard: a React-based admin UI granting real-time visibility, state tracking, and control (pause, resume, retry) over background job queues.
- Traced job execution lifecycles through Node.js and MongoDB service layers to define status-tracking, error-handling, and metric-logging interfaces for the proposed observability layer.

Experience

Software Engineer Intern – Trainee Program

Hyderabad, India

Coforge Limited | Enterprise IT Services & Digital Transformation

Jun 2026 – Present

- Undergoing structured enterprise engineering training in **Core Java, Spring Boot, Spring MVC, and Hibernate/JPA**; building REST APIs with dependency injection and ORM-based data access.
- Applying object-oriented design principles to enterprise service development within a large-scale IT services environment, gaining exposure to layered architecture and Maven-based build management.

Software Engineering Intern

Hyderabad, India

Get Interview Confidence

Jul 2025 – Sep 2025

- Shipped production full-stack features across **6 sprint cycles** (React.js, Node.js, MongoDB) with **zero rollbacks**, maintaining structured PR review and Git branching discipline throughout the tenure.
- Diagnosed and eliminated N+1 query bottlenecks on high-traffic REST endpoints; applied Redis caching and query refactoring, reducing critical-path latency **by 40%** without schema changes.
- Designed **JWT-authenticated REST APIs with RBAC**, enforcing fine-grained multi-tenant data isolation across all production endpoints.

Freelance Full-Stack Developer

Remote, 2023 – Present

Independent Contractor

- Architected and deployed **3+ MERN stack applications** end-to-end for local businesses (hotels, cafes, restaurants), managing full project lifecycle from requirements to production.
- Designed MongoDB schema, built REST APIs, and containerized deployments with Docker for reliable, maintainable client-facing applications.

Projects

Robinhood – AI-Powered DSA Learning & Interview Prep Platform [GitHub]

2026

React.js · Node.js · MongoDB · Redis · Socket.io · OpenAI API · LangChain · Docker · AWS EC2

- Architected a real-time multi-user collaborative code editor (Socket.io + Monaco Editor) with conflict-free state synchronization; optimized hot-path events via Redis pub/sub and debounce logic to cut server event throughput.
- Engineered an AI mentor layer (OpenAI API + LangChain) for prompt-chained, few-shot DSA problem generation with rate-limit fallback handling and structured-output validation.
- Designed a deterministic recommendation engine prioritizing weak topics and revision-due problems, reserving AI calls for high-value interactions to control cost.

WalletStack – Full-Stack Personal Finance & Equity Intelligence Platform [GitHub]

2026

React · Node.js · Express · MongoDB · Redis · TanStack Query · Clerk · OpenRouter · Vercel · Render

- Built a market-data aggregation layer across **5 providers** (Twelve Data, Alpha Vantage, Finnhub, FMP, Yahoo Finance) with automatic symbol resolution, provider failover, and rate-limit cooldowns for US/Indian equities.
- Implemented live portfolio valuation and paper-trading with 5-second quote refresh, multi-currency accounting, and realized/unrealized P&L tracking.
- Designed Redis-backed caching with workload-specific TTLs (2s quotes, 10s charts, 1hr search) and Clerk-secured route authorization, reducing redundant provider calls and API throttling.

Certifications

Full Stack Developer – Udemy (2025) • **AWS Cloud Practitioner** – Coursera (2026) • **DevOps Specialization** – Coursera (2026)