

ANIKET KOLTE

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Education

Pune Institute of Computer Technology

Jul 2021 – May 2025

Bachelor of Engineering: Computer Engineering

CGPA: 8.28

Experience

Associate Software Developer - Finarkein | Java, Spring WebFlux, Apache Kafka, Microservices Sep 2025 – Present

- Migrated Run Ids from **UUID** to **timestamp-based UUIDv7**, enabling database partitioning on Run Id and improving query performance by **40%**.
- Implemented **Liquibase-based schema migration workflows** to manage versioned database changes across microservices, reducing deployment errors and improving rollback safety.
- Built and maintained **reactive, non-blocking APIs** with **Spring WebFlux**, improving system responsiveness and reducing latency under high I/O loads.

Engineering Intern - PayU | Java, Spring Boot, Microservices

Jul 2025 – Aug 2025

- Contributed to the migration of **payment services** from a **monolithic PHP** codebase to a **microservices-based Spring Boot** architecture.
- Used **Postman** and **JUnit** for API testing and validation across **production** environments.

Backend Intern - Stealth Startup | Kubernetes, AWS, Spring Boot

Feb 2025 – Jun 2025

- Deployed **scalable, multi-tiered applications** using **Kubernetes**, leveraging distributed architecture and relational databases to ensure high availability and performance.
- Worked with **AWS** services to optimize cloud-based deployments and system performance.
- Developed backend services with Spring Boot and Redis focused on API optimization, improving response efficiency by **30%** through intelligent caching and asynchronous processing.
- Developed and implemented **CI/CD pipelines** and established the production environment for the organization.
- Utilized workflow automation tools to integrate **AI agentic nodes** for intelligent task orchestration.

Backend Developer Intern - ZenStudy | Next.js, JavaScript

Dec 2024 - Jan 2025

- Building backend infrastructure for a video streaming platform with a focus on scalability and security.
- Implemented **Digital Rights Management (DRM)** solutions to protect video content and ensure secure streaming.
- Developing RESTful APIs and integrating backend services to support platform features and improve user experience.

Database/Backend Intern - Fluxvisio Tech | Node.js, Express.js, JavaScript

Aug 2024 - Oct 2024

- Designed and implemented database schemas tailored for project needs to ensure optimal data structuring and retrieval.
- Utilized **Prisma ORM** for efficient database management, data modeling, and seamless interaction with various data sources.
- Developed and integrated **WebSockets** to enable real-time data communication and enhance user experience.

Achievements

- Two-time ACM ICPC** Regionalist, participated in ICPC Chennai Regional 2023 (AIR 65), and ICPC Kanpur Regional 2024 (AIR 105); also qualified for ICPC Amritapuri Regional 2024 after securing top ranks in the preliminary rounds.
- Expert** (Rating: 1711) on Codeforces
- 5* Rated** (Rating: 2035) on Codechef
- Google KickStart**: Secured a Rank of 730/8100+ in 2022 Round G.
- Achieved ranks of **325, 726, 946** in multiple Codeforces rounds and global ranks of **1, 11, 60** in different Codechef rounds.

Projects

Provena | Python, FastAPI, PostgreSQL, MCP | 🐙 | PyPI | [Demo](#)

Sep 2026

- Built a **provenance-first memory layer for AI agents** (Codex, Claude Code, Gemini CLI) exposed via an **MCP server**, where every stored claim links to **immutable source evidence** with scope, review state, validity time and **conflict detection**.
- Designed the backend with **FastAPI, PostgreSQL + pgvector** for semantic retrieval and **Alembic** migrations, using local **Ollama** models for claim extraction and embeddings, deployed via **Docker Compose**.
- Published as an open-source **PyPI package** with a one-command quickstart that provisions the stack, issues scoped agent/reviewer credentials and installs **automatic memory-capture hooks**.

CollabBoard | Node.js, Express.js, React.js | 🐙 | [Live](#)

Nov 2024

- Developed a real-time collaborative **whiteboard platform** featuring drawing tools, **instant chat**, and **WebRTC-based** peer-to-peer video chat with **STUN/TURN** servers, enabling multi-user teamwork and live collaboration via **WebSockets**.
- Implemented robust WebRTC negotiation logic using the **Perfect Negotiation pattern** and **custom signaling/ICE candidate queues**, ensuring collision-free offer/answer exchanges and reliable real-time communication.
- Added **backend rate limiting** to enhance security and prevent abuse, ensuring stable and reliable service for all users.

Technical Skills

Languages: Java, JavaScript, TypeScript, C++, Python, SQL

Databases: MongoDB, PostgreSQL, MySQL

Developer Tools: VS Code, Eclipse, Cursor

Technologies, Frameworks & Libraries: Spring Boot, Node.js, Next.js, Express.js, Firebase