

Anupam Kumar

Software Development Engineer

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GitHub | LinkedIn

WORK EXPERIENCE

- Navi Technologies** On-site (Bangalore)
SDE-2 | Team: Personal Loan | Language: Java, Kotlin July 2025 – Present
 - Database Optimization & Cost Savings:** Optimized DB storage by partitioning large tables using **pg-partman** and migrating to a smaller instance, reducing overhead and saving **\$600 per month** with zero downtime.
 - Processing Fee Introduction:** Led the end-to-end backend delivery of a new Processing Fee feature, contributing ₹1CR per day in revenue. Mentored and guided junior engineers on the team to ensure a seamless and on-time rollout.
 - Service Scalability & Performance:** Improved service performance by re-architecting backend services with asynchronous processing via **Kafka** and optimizing database queries, enabling a **5x increase** in requests with **zero** downtime.
- Navi Technologies** July 2023 – June 2025
SDE-1 | Team: Personal Loan | Language: Java, Kotlin
 - Revamped Loan Journeys:** Redesigned Personal Loan Repeat and Top-Up flows, including **Offer Generation**, **Mandate**, and **Disbursement**. Increased approval-to-disbursal rates (24% → 29%, 14% → 25%) and boosted daily gross disbursal by **33.5%** (₹17.6 Cr → ₹23.5 Cr) and **26.6%** (₹10.5 Cr → ₹13.3 Cr).
 - EMI Date Standardization:** Streamlined EMI date logic by consolidating to 4 dates and integrating with a decisioning service. Revamped API workflows, eliminating redundancy and significantly **improving collection efficiency**.
 - Comms in Vernacular Languages:** Enhanced customer experience by implementing multi-language communication in **15+ vernacular languages**, optimizing workflows, and reducing redundant reads.
 - OKYC Integration:** Integrated **Aadhaar and PAN verification** using Digilocker, increasing KYC completion rate by **10.2%** and reducing completion time.
 - Workflow & Production Optimization:** Automated QA processes (reducing time from **10 minutes to <1 minute**), simplified KYC verification for faster onboarding, and resolved high-priority issues during on-call rotations to ensure minimal downtime and consistent **service reliability**.

TECHNICAL SKILLS

- Programming & Frameworks:** Java, Kotlin, C++, Python, SQL, Spring Boot, JUnit, GraphQL
- Databases:** PostgreSQL (pg-partman), MySQL, MongoDB
- DevOps & Tools:** Docker, Kubernetes, Prometheus, Grafana, Apache Kafka, Gradle, Maven, Git, Shell
- Areas of Interest:** Low Level and High Level Design, Microservices, Database Systems

PROJECTS

- EvolvDB — Educational Database Engine:** Personal Project | Project link on GitHub
 - Built a **from-scratch relational DB engine** in Java to deeply understand database internals, covering the full query pipeline: **SQL Parsing → Planning → Optimization → Execution**.
 - Designed a modular system with **catalog, planner, optimizer, and Volcano-style execution engine**.
 - Implemented core **relational operators** and a **cost-based optimizer** with join reordering, predicate pushdown, and projection pruning, showcasing expertise in advanced database concepts.
 - Developed **unit and end-to-end tests** and authored comprehensive **documentation with diagrams**.
- Network Software Monitoring Tool:** Smart India Hackathon Project | Design document
 - Developed a **tool** to monitor and regulate **software installations** on network devices.
 - Worked on **IP address discovery** within local networks, incorporating a **hot reload feature** for real-time updates.
 - Implemented **APIs** to enable network searches based on **IP addresses** and **software names**, providing a key feature for network administrators.

ACHIEVEMENTS

- 2022 | Grand finalist in the Software category in **SIH 2022**.
- 2022 | Secured **Global Rank 2329** in Google Hash Code.
- 2021 | Secured **Global Rank 2436** in Google KickStart Round D.

EDUCATION

- Indian Institute of Technology Bhilai** Raipur, Chhatisgarh
Bachelor of Technology - Computer Science; CGPA: 8.66 July 2019 - April 2023
Courses: Data Structures and Algorithms, OOPS, Operating Systems, Database Management System, Machine Learning