

# Aman Patel

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## TECHNICAL SKILLS

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**Languages:** Java, C++, SQL

**Frameworks & Libraries:** Spring Boot, JPA, REST APIs, WebSockets(STOMP)

**Backend & Architecture:** Microservices, Kafka, Distributed Systems, Event-Driven Architecture

**Databases:** PostgreSQL, MySQL, Apache Ignite

**Cloud & DevOps:** AWS, Docker, Kubernetes, CI/CD

**Version Control & Tools:** Git, GitHub, GitLab, SVN, Maven

**Concepts:** Data Structures and Algorithms, Multithreading, System Design, SOLID, OOPs, AOPs

## WORK EXPERIENCE

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- **Software Engineer — TCS Digital** *Jul 2024 - Present*
  - \* Championed a system-wide architecture upgrade via **Java AOP**, resolving legacy technical debt and accelerating cross-team feature delivery by **3+ days**.
  - \* Engineered **low-latency backend services** via **Java multithreading**, executing parallel API calls and reducing response time to **50ms**.
  - \* Eliminated **JVM GC and heap memory bottlenecks** within **Spring Boot microservices**, stabilizing system throughput at **100 requests/sec**.
  - \* Collaborated with a **5-member cross-functional squad** to integrate **Memcached**, optimizing **database queries** and scaling operations to **500 requests/sec**.
  - \* Designed **event-driven distributed systems** by tuning **Kafka configurations**, sustaining **100 requests/sec throughput** under heavy production load.
  - \* Mentored junior engineers on **Docker and Kubernetes** deployments, elevating team code quality and securing a top **4.29/5 'Best in Team'** performance rating.

## PROJECTS

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- **FinSync — Secure Account Aggregator** *Dec 2022 – Mar 2023*
  - \* Spearheaded a **multi-institution financial aggregator** using **Flutter and REST APIs**, integrating **10+ bank APIs** to centralize disparate financial data streams into a unified dashboard.
  - \* Facilitated secure financial data sharing via an **OAuth2-based permission system**, establishing robust authentication and protecting user consent flows.
  - \* Orchestrated **high-throughput data pipelines** using **Java**, processing **5,000+ daily financial data points** to eliminate cross-platform context-switching.
  - \* Accelerated **backend data-fetching algorithms** via **Spring Boot**, reducing API response latency to **sub-200ms** and improving **user retention**.
  - \* **Technologies:** Flutter, Dart, Java, Spring Boot, REST APIs, OAuth2, JWT, PostgreSQL, JSON, Git.
- **NetOps Monitor — AI-Powered Network Operations Platform** *Jul 2025 – Aug 2025*
  - \* Engineered a microservices-based platform using **Spring Boot**, managing device monitoring and incident workflows for **1,000+ devices** with **sub-80ms response time**.
  - \* Implemented anomaly detection using **LSTM (Deeplearning4j)** on 30 days of telemetry data, achieving **87% accuracy** and reducing false positives by **40%**.
  - \* Developed an AI-powered chatbot with **LangChain4j and GPT-4**, enabling natural language querying and automated troubleshooting for network issues.
  - \* Integrated **RAG architecture** with **Chroma vector database** storing **500+ resolution cases**, reducing mean time to resolution (MTTR) by **35%**.
  - \* **Technologies:** Spring Boot, Deeplearning4j, LangChain4j, OpenAI API, Chroma, MySQL, Redis, Docker, GitHub Actions.

## EDUCATION

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**VIT Bhopal University**

*B.Tech in Computer Science and Engineering (Core)*

**CGPA:** 8.23/10

**Bhopal, Madhya Pradesh, India**

*Aug 2020 – Jul 2024*