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Mohit Kumar

Full Stack Developer and Self Learner

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Education

SRM University AP – Andhra Pradesh, India

Jul 2019 - Jun 2023

Bachelor of Technology in Computer Science; CGPA: 9.75 / 10

Skills Summary

Core: Full Stack Development, Distributed Systems, Microservices, System Design, RESTful APIs, Event-Driven Architecture, Cloud-Native Architecture, Scalability and Performance

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

Frameworks: Spring Boot, Spring Cloud, Spring Security, Spring Cloud Stream, React, Next.js, Express.js

Libraries: JPA, Flyway, Quartz, STOMP.js, Jest, React Testing Library, etc

Tools & Technologies: Docker, Kubernetes, Kafka, RabbitMQ, Redis, MongoDB, PostgreSQL, Elasticsearch, OpenAPI, Testcontainers, Git, Bitbucket Pipelines, Kibana, SonarCloud

Cloud: Google Cloud (GCP), Amazon Web Services (AWS)

Experience

Senior Software Engineer

Toronto, Ontario, Canada

Volante Systems

Sep 2022 – Present

- Power enterprise **point-of-sale infrastructure** processing **millions of transactions across North America**, maintaining high **reliability, security, availability, and performance** across distributed retail environments.
- Architected **React + TypeScript** POS, Kiosk, BarTabs, and Table Service clients using **Vite, MobX, and STOMP WebSockets** for real-time state synchronization; optimized Back Office applications with **react-virtualized** windowing and **OpenAPI-generated typed clients**, backed by **Jest/React Testing Library**.
- Engineered **microservices** using **Spring Cloud, Eureka, Spring Cloud Config, OpenFeign, and JWT** for service discovery, centralized configuration, inter-service communication, and **multi-tenant data isolation**; designed polyglot persistence across **MongoDB terminal state**, including **900+ Flyway database migrations**.
- Built **event-driven, distributed workflows** with **RabbitMQ, Cloud Stream, and Quartz**, including a **delta-driven offline-first synchronization engine** for continuous Back Office reconciliation; containerized services with **Docker** and deployed on **Kubernetes**, with **Kibana observability, Bitbucket CI/CD**.
- Supported **300K+ end customers, 1K+ enterprise tenants, 10K+ stores, and 30K+ terminals** across multi-tenant deployments, enforcing **tenant-scoped isolation** at microservice and database query boundaries while continuously synchronizing **menu, pricing, transaction, and customer data**.
- Optimized **high-throughput workloads** using **per-terminal worker threads, request coalescing, 2,000-record batched writes, delta synchronization, and Redis caching**, improving system scalability and reducing unnecessary database reads/writes during peak loads.

Software Developer

Pune, Maharashtra

InFoCusp Innovations

Jul 2022 – Sep 2022

- Worked with a fast-paced development team on tasks involving frontend, backend, unit testing, source code management, etc.
- Designed applications on React and developed Restful APIs using **AWS SAM, Lambda (Node.js), API Gateway, MongoDB, and Cloud Formation**.

Projects

- **CAPE** - CAPE is a MERN-based full-stack project allowing programmers across the globe to analyze their coding performances collected via various platforms, refer to ongoing and upcoming contests, and set reminders for themselves.
- **Society Auditor** - Developed a website that facilitates the staff residents' interactions and maintenance of resident blocks in society. Implemented payment gateways to handle society-related payments. Hosted the application using AWS and Route53.
- **Coolie App** - Developed an android application to allow users to book porters and wheelchairs at railway stations. Build the whole database on Firebase's real-time database. Implemented Django FAST APIs to facilitate PNR checks and porter availability.

Achievements

- Recognized with the **Rising Star Award at Volante Systems, Canada** for demonstrating exceptional dedication, hard work, and expertise within the company.
- Secured the **Best Paper Award** in the Image Processing & Computer Vision track of the **4th International Conference at MIND-2022** organized by MANIT Bhopal. (500+ participants)
- Secured a position in the **Top 30 teams at HackRx 3.0** organized by Bajaj Finserv (1000+ participants)
- Secured **Gold Medal** at Research Day 2022 organized by SRM University AP. (200+ participants)
- Secured **4th position at Route Mobile Hackathon** and won a cash prize of 500 USD. (7000+ participants)
- Bagged the opportunity to represent the college in the **ACM ICPC Regionals 2020**. (4000+ participants)
- Won the **Agora Track Prize** and came in the **Top 10** at Hack the Mountains 2.0. (3000+ participants)
- Secured the title of "**Best Business Implemented Hack**" at Ingenious Hackathon 2.0. (1000+ participants)
- Awarded a **100% scholarship by SRM University AP** for my BTech in Computer Science.
- Published **75 articles** on Android Development, Java, and XML along with documented codes as an intern at Data Flair.
- Secured **1st position** at the zonal level and **3rd position** at the regional level of the ASISC Quiz competition.

Publications

- **Book Chapter** - Authored a book chapter for the book "Autonomous Vehicle- An Intelligent Algorithm of Computing", published by Scrivener Publishers.
- **Research Paper** - Published and Presented a paper at the 4th International Conference on Machine Learning, Image Processing, Network Security, and Data Sciences (MIND-2022)
- **Research Paper** - Published and Presented a paper at the 2nd IEEE International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET 2022)

Volunteer Experience

- Syndicate of **Tesla Lab** and **Board Member at Next Tech Lab AP**
- **President and community lead** of the Coding Club at SRMAP
- **Organizer of HackSRM 3.0** hackathon and several other coding competitions and hackathons in the college
- **Vice President** of the Information Technology Club at school and a leader of the Spectrum Club