VIKAS KUMAR

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FDUCATION

DELHI TECHNOLOGICAL UNIVERSITY

B.TECH IN ELECTRICAL ENGINEERING May 2021 | New Delhi, IN

COURSEWORK

UNDERGRADUATE

Data Structures and Algorithms
Object Oriented Programming
Computer Networks
Operating Systems
Database Management Systems
Cloud Computing
Linear Algebra and Probability
Numerical Optimization Methods

SKILLS

Programming Languages:

- C/C++ Java (Core + OOP)
- JavaScript (ES6+) / TypeScript

Backend Technologies:

- Node.js & Express.js
- Spring & Spring Boot
- WebSockets & Socket.IO
- JWT Authentication
- RESTful API Design

Database Management:

- PostgreSQL MongoDB
- Redis (Caching & Session Store)
- · Query Optimization · Indexing
- Sharding Partitioning
- Replication
 Backup
 Restore

Cloud & Infrastructure:

- Amazon Web Service (AWS)
- Google Cloud Platform (GCP)
- Jenkins CI/CD Pipelines
- Git GitHub

Frontend Technologies:

- HTML5 & CSS3
- React.js & React Native
- State Management
- Asynchronous Requests

Testing Frameworks:

- UI Testing with Selenium
- Load Testing with K6 & JMeter
- Unit Testing with Jest & JUnit
- API Documenting & Testing with Swagger, OpenAPI & Postman

EXPERIENCE

SAMSUNG R&D INSTITUTE - DELHI | SOFTWARE ENGINEER

Sep 2022 – Present (38+ Months) | Noida, UP, India (Full-Time)

- Optimized VXT CMS performance by improving RESTful API efficiency and enhancing database operations through reduced redundant queries, selective data fetching, optimized indexing, and refined data models, resulting in 30% faster response times and higher overall throughput.
- Enhanced microservice performance by adding Redis based caching, solidifying concurrency handling, refactoring heavy workloads into asynchronous pipelines, delivering 30% faster user experience under high traffic.
- Implemented a robust media-upload pipeline using presigned S3 URLs, secure MIME & size validation, streamed server-side checks, integrity verification, enabling faster and more resilient photo-video uploads across the VXT platform.
- Achieved a 45% faster publish cycle with sub-minute content delivery to 1,000+ displays by optimizing Publisher Service logic for scheduling, playlist generation, and efficient data handling.
- Built complete **Activity Log system** from scratch, capturing user actions through a **queue-driven pipeline** and enabling fast lookups with **composite indexing**.
- Reduced on-site maintenance by 40% by building Remote Device
 Management module with real-time alerts, automated health checks, and
 energy-usage insights.
- Implemented VXT Screen Wall support, enabling synchronized content playback across multiple displays to create seamless multi-screen layouts.
- Achieved 35% faster partner-app onboarding for POS and infotainment solutions by integrating PIRS Marketplace with standardized integration templates and minimal-code deployment workflows.
- Delivered a **production-grade MVP** for Samsung's Al for Education in **2 months** by building the platform with **asynchronous I/O**, a **modular service architecture**, and **RESTful APIs**. Achieved **3× faster feature integration** and **99.9% endpoint reliability** verified with *K6 load tests*.
- Secured Samsung's Professional SWC certification, earned by only 5%, demonstrating strong development expertise & problem-solving abilities.

Skills: C++, Java, JavaScript, Node.js, Spring Boot, React.js, SQL, AWS, GCP

THE SMART CUBE | DATA ANALYST

August 2021 - May 2022 (10 Months) | Noida, UP, India (Full-Time)

- Designed optimized SQL queries to efficiently extract & structure sales data, improving analyzing speed by 30% enabling faster, more reliable decision-making.
- Automated recurring commodity-price reports by lightweight **Selenium scripts** to fetch and clean external **API data**, updating client templates with current values.

PROJECTS & PUBLICATIONS

VERSIFY GITHUB

January 2024 - June 2024 | New Delhi, India

 Built a full-stack MERN app for creating and sharing content, implementing robust RESTful APIs with JWT authentication, role-based authorization, enhanced security and efficient frontend-backend communication.

CONTACTLESS PARKING WITH IOT & WEB APP VIDEO | PUBLICATION

June 2020 – April 2021 | New Delhi, India

 Built a cloud-based parking system with real-time updates, pre-booking, auto-billing, and a scalable backend along with Arduino based image detection for QR Code scanning; reinforced the product through a research paper.