Ajay Kumar Kushwaha

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Skills & Technologies

Programming: Java (core), Object Oriented Programming, Multithreading & Concurrency, C++, Data Structures & Algorithms
Backend: Spring Boot, Microservices, Rest APIS, Kafka, elastic-search, gRPC, Mockito Junit testing, Design Patterns, HLD, LLD, NodeJs
Databases: JPA, hibernate, PostgreSQL, redis, SQL, MongoDB, NoSQL
Frontend: JavaScript, Angular, Responsive Web-design, RxJS, Routing, Reactive Forms, Form Arrays, ReactJS, CSS3, HTML
Additional: Git, Dockers, Kubernetes, CI/CD, Jenkins, AWS, Grafana, Prometheus, Profiler, IntelliJ Idea, Postman

Work Experience

Software Engineer Backend – Sun King (The Green Light Planet) (July 2022 – Present)

Project: Sun King Pay (SAAS product with a Pay-as-you-Go system to facilitate the sales of solar Products)

- Led the **architectural** design of **microservices**, **DB schemas** and development of **REST APIs** for Lead Management, Order Management, Loan Management, and subsequent stages such as Payments, Refunds, Replacement, Repossession, Wallet.
- Orchestrated the complete **Order Life Cycle**, encompassing creation, **integration of inventory actions** (allocation, de-allocation, selling), re-assignment, and order cancellation. Proactively identified and resolved **critical bugs** in inventory management, particularly related to pricing-group and mapping of products.
- Took Ownership of **elastic-search** & related operations from configuration setup in all microservices to building multiple **autocomplete APIs**. Optimized & refactored code with a standardized re-usable response structure. Identified and resolved **data-inconsistency** issue between PostgreSQL DB and Elastic Db by Syncing API using **Registry Design Pattern.**
- Implemented **write-through cache (redis)** for third-party authentication token improving **efficiency by 60%**. Replaced R-socket based authentication to **gRPC** based for **microservice communication** improving to **30%** boost in performance of the system.
- Configured **Kafka** consumer for **real-time** receipt of payments from **MPESA**. Implemented Scheduler to allocate payments to orders, initiated refunds for unallocated payments. For sending real-time **SMS to customers**, and **data points** for analytics team.
- Backend Support for the **offline feature** in the mobile application, Integration with **Samsung Knox, Pay-as-you-go** Phones from In-warding to locking and unlocking using keycode. **Bulk recharge** for Agent Wallets from CSV file for incentives and payout.
- Collaborated in agile-based environment, discussions with product, QA and Infra teams, estimations for successful delivery within deadlines, resolving **prod issues**, writing test cases, CI-CD pipelines, monitoring metrices using Grafana, displayed strong leadership in guiding new team members and solving complex bugs and documentation.

Tools/Technologies: Java, Spring Boot, Elastic Search, PostgreSQL, GRPC, Kafka, Microservices, dockers, Grafana, Unit testing, Jenkins, CI-CD

Specialist Programmer – Infosys (Oct 2020 – June 2022)

- Designed **Angular components** for new Screens, implemented modularization, **routing,** l**azy- loading, Pop-up** (Modal).
- Developed **REST APIs** in **microservice** architecture wrote **unit tests**, optimized **stored procedures** to communicate with DB.
- Fixed critical bugs, added new features, **reactive-forms,** to existing dashboard screens, API integration using **RxJS.**

Tools/Technologies: Angular10, typescript, Material-UI, REST API, Sql, Java, Spring Boot, Git

Projects

The Pizza Pro | GitHub

Online Pizza Ordering System, Users can add Pizza to the cart, delete, manage Quantity and Order Pizza.
Tools/Technologies: ReactJS, JSX, Context API, java Spring boot Routing, MERN

We Care | GitHub

Appointment booking/management application with signup/login features. Users can filter on basis of specialty, availability, upcoming schedule, reschedule or cancel the appointments. Similarly, coaches can also manage their schedules.
Tools/Technologies: MEAN, Angular10, java, Spring boot, MongoDB, CSS3, Routing, Reactive Forms, Lazy Loading

Education & Undergraduate Courses

JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY, NOIDA (U.P.)
B. Tech - Information Technology (2016-20) **CGPA - 8.2/10**
JAY JYOTI SCHOOL, REWA (M.P.)
Higher Secondary (2015-16) - **93.4%**
Secondary School (2013-14) **CPGA- 9.6/10**

- Data Structures and Algorithms
- Database Management Systems.
- Computer Networks
- Operating Systems
- Computing for Data Science and Neural Networks