

# KIRAN KUMAR

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## PROFESSIONAL SUMMARY

- Over 3 years of experience in full **Software Development Life Cycle**, specializing in requirement gathering, system design, and architecture discussions, ensuring alignment with business goals and high-quality software delivery.
- Proficient in designing and developing scalable back-end systems and microservices using **Java Spring Boot, Spring Cloud, Eureka, and Open Feign**.
- Designed and developed dynamic, user-friendly front-end interfaces using **ReactJS, AngularJS, HTML, CSS, and JavaScript**, ensuring responsive and visually appealing user experiences.
- Experienced in database design, optimization, and management for **SQL and NoSQL** solutions, including **PostgreSQL, MySQL, and MongoDB**, ensuring efficient data handling and performance.
- Skilled in deploying containerized applications with **Docker and Kubernetes**, implementing **CI/CD pipelines**, and leveraging **AWS** for cloud hosting, improving scalability and fault tolerance.
- Hands-on expertise in version control using **Git and GitHub**, ensuring efficient collaboration and code management across projects.
- Strong knowledge of unit and integration testing with **JUnit and Mockito** and utilizing **Postman** and **Swagger** for **RESTful API** testing and debugging.
- Experienced in securing applications with **JWT and OAuth 2.0** for authentication and authorization, ensuring robust security measures in microservices.
- Experienced in **Agile and Scrum environments**, actively contributing to sprint planning and ensuring timely project delivery.

## WORK EXPERIENCE

### HORIZON IT

Software Engineer Intern

Charlotte, NC

Jul 2024 - Present

- Designed, developed, and deployed end-to-end Java full-stack web applications using **Java Spring Boot and AngularJS**, resulting in improved application performance and user engagement.
- Contributed to the creation of **RESTful APIs** to facilitate seamless communication between microservices and client applications, ensuring smooth data flow and integration.
- Enhanced database management expertise by designing, querying, and optimizing **SQL-based relational databases** to ensure efficient and high-performance application interactions.
- Worked extensively with **AWS cloud services** to manage application hosting, storage, and database operations, gaining proficiency in cloud-based infrastructure and resource optimization.
- Acquired a strong understanding of **DevOps practices**, including **containerization, continuous integration, and deployment** pipelines, enabling efficient and scalable application delivery.

### AARMEC TECHNOLOGIES PRIVATE LTMD

Software Engineer

Hyderabad

Jun 2021 - Jan 2023

- Collaborated with product owners and business analysts to analyze business requirement documents, ensuring accurate understanding and alignment with project goals.
- Designed and implemented microservices for user authentication, transaction processing, and account management using **Java 1.8, Spring Boot, and REST APIs**, improving system scalability and modularity.
- Integrated **PostgreSQL and DynamoDB** for efficient data handling, achieving significant improvements in query performance and data retrieval times.
- Participated actively in **Agile workflows**, including **daily scrums and sprint planning**, which ensured effective task prioritization and timely project delivery.
- Deployed containerized services using **Docker and Kubernetes**, improving deployment efficiency and **enhancing fault tolerance** and scalability.
- Configured monitoring tools like **Grafana and Kibana**, enabling proactive issue detection and resolution, improving system observability and reliability.
- Conducted rigorous unit and integration testing with **JUnit and Mockito**, achieving **95% code coverage** and minimizing production defects.
- Delivered a robust customer account management system, processing over **15,000 daily user requests** with **99.9% uptime**, enhancing operational efficiency and customer satisfaction.

### AARMEC TECHNOLOGIES PRIVATE LTMD

Software Engineer Intern

Hyderabad

Apr 2021 - Jun 2021

- Developed a **Hotel Reservation System** using **Spring Boot and ReactJS**, following **Agile methodology** to deliver secure, scalable, and user-friendly functionalities.
- Implemented **Role-Based Access Control (RBAC)** and **JWT-based authentication** with **Spring Security**, ensuring secure access for admins and employees.
- Designed and optimized **MySQL databases** and integrated them with **Hibernate ORM**, enhancing database efficiency and enabling advanced query handling.
- Built **microservices architecture** with Spring Boot, **Spring MVC**, and **Spring AOP**, containerized using Docker for seamless deployment and scalability.
- Delivered key features like room booking, user **account management**, and **real-time reservations**, gaining hands-on experience in full-stack development and secure application design.

## ACADEMIC PROJECTS

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### E-commerce Application

- Designed a **microservices-based backend system** using Spring Boot with dedicated services for **Customer, Product, Order, Payment, and Notification**.
- Enabled seamless inter-service communication using **Eureka Discovery Server** and **OpenFeign**, ensuring efficient service discovery.
- Integrated **Apache Kafka** for real-time message streaming and **Spring Boot's email service** for automated notifications, enhancing reliability.
- Leveraged **Docker for containerization** and **PostgreSQL/MongoDB** for optimized data storage across microservices.
- Implemented a **Spring Cloud API Gateway** with robust security mechanisms, and used **Zipkin** for distributed tracing to monitor and debug system performance.

### POS System

- Developed a secure role-based authentication system, enabling admins to manage inventory and employees to **handle billing and product operations**.
- Implemented real-time inventory tracking with **MongoDB**, including low-stock alerts via email using **Nodemailer**.
- Designed bulk product addition functionality using **Excel uploads**, enhancing operational efficiency and reducing errors.
- Built a **password recovery system** and detailed billing access for employers, ensuring secure and efficient data handling.

## SKILLS

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**Languages:** Java 8/11, Python, SQL

**Scripting Languages:** JavaScript, HTML, CSS, jQuery, Shell

**IDE and Versioning Tools:** IntelliJ, Visual Studio, PyCharm, NetBeans, Git, GitHub

**Technologies/ FRAMEWORKS:** Spring Boot, Spring MVC, Spring AOP, Spring Batch, Hibernate ORM, Node.js, Express.js, React.js, AngularJS, Tailwind CSS, Redux, Eureka, Open Feign, Apache Kafka, Zipkin, Docker, Kubernetes

**Tools:** Postman, Git, GitHub, JIRA, Photoshop, Figma, Swagger

**Database Management:** MySQL, PostgreSQL, MongoDB, H2, SQLite, AWS S3, Elasticsearch

**Security:** Spring Security, JWT, OAuth 2.0, API Gateway

**Operating Systems:** Linux (Ubuntu), Windows

**Build Tools:** Maven, Gradle

## EDUCATION

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### Northwest Missouri State University

Master of Science, Information Science

Courses: Object Oriented Programming (Java), Database Systems (SQL and NoSQL), Project Management in Business and Technologies, Enterprise Networking, Cybersecurity and Info Security Management, Information System Analysis and Design.