

# MAHESH KUMAR PAKA

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## PROFESSIONAL SUMMARY

Java Full Stack Developer with 4 years of experience delivering production web applications using Java, J2EE, Spring Boot, and React across enterprise and product-driven environments. Strong background in building secure RESTful APIs, data-driven backend workflows, and responsive frontend interfaces that support scalable business operations and deliver 30-40% performance improvements. Experienced in integrating AI-enabled features through controlled LLM API usage and intelligent backend workflows to automate content-centric processes while maintaining system reliability. Proficient in cloud-based deployments using AWS, Docker, CI/CD pipelines, and asynchronous messaging, collaborating with cross-functional teams to deliver solutions aligned with U.S. engineering and business standards.

## TECHNICAL SKILLS

**Programming Languages:** Java 8, Java 11, Java 17, JavaScript ES6+, TypeScript, SQL.

**Backend Development:** Java, J2EE, Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Hibernate, RESTful Web Services, Microservices, Backend Development, Enterprise Web Applications.

**Frontend Development:** React.js, JavaScript, TypeScript, HTML5, CSS3, Responsive Web Design, Frontend Development, Web Applications.

**Databases:** MySQL, PostgreSQL, Redis, Database Design, Query Optimization.

**AI Enabled Features:** AI powered applications, AI enabled backend services, LLM API integration, Intelligent automation, AI driven workflows.

**Cloud and DevOps:** AWS EC2, RDS, Docker, CI CD pipelines, Jenkins, GitHub Actions.

**Messaging and Integration:** Apache Kafka, RabbitMQ, Asynchronous Processing.

**Testing and Quality:** JUnit, Mockito, Unit Testing.

**Tools and Collaboration:** Git, GitHub, Agile Scrum, Maven, Linux.

## PROFESSIONAL EXPERIENCE

### Java Full Stack Developer

May 2025 - Present

Adobe | San Jose, CA

- Delivered Java full stack functionality using Java, J2EE, Spring Boot, and React to support AI-enabled product features within a production web platform used by internal business teams.
- Designed and maintained secure RESTful APIs using Spring MVC, Spring Security, and Spring Data JPA, improving reliability and reducing request failures across core application workflows.
- Integrated AI-powered API responses into backend services to automate content generation logic, reducing manual effort for operational teams by approximately 60%.
- Improved backend performance by applying Redis caching on read-heavy endpoints, minimizing database calls and ensuring consistent response times for frequently accessed features.
- Implemented asynchronous processing using Apache Kafka and RabbitMQ to handle long-running background tasks without impacting user-facing request processing or application stability.
- Collaborated with frontend engineers to align React UI behavior with backend service contracts, resolving integration issues and reducing defects during feature rollouts.
- Containerized backend services using Docker and deployed on AWS EC2 with RDS-backed persistence through CI/CD pipelines, reducing deployment-related issues and manual intervention by about 40%.
- Partnered with QA and product teams to validate requirements, troubleshoot production issues, and support stable releases in an Agile development environment.

### Java Frontend Developer

Mar 2022 - Apr 2024

K Tree Computer Solutions Pvt Ltd | Hyderabad, India

- Developed interactive user interfaces using React.js, JavaScript ES6+, and TypeScript to support customer-facing web modules with responsive and consistent user experiences.
- Built reusable UI components and state-handling logic, reducing duplicated frontend code and improving maintainability across multiple application screens.
- Integrated frontend applications with backend services to enable secure data exchange and real-time application behavior across business workflows.
- Optimized GraphQL queries and mutations within React applications, reducing unnecessary network calls and improving data-fetch efficiency by approximately 30%.
- Enhanced client-side workflows through validations and authentication handling, improving navigation flow and form completion rates for end users.
- Assisted backend teams by creating validation utilities to verify API payloads during testing cycles, improving early defect detection and test reliability.
- Worked closely with designers, backend engineers, and QA analysts to resolve issues and deliver enhancements that contributed to improved user engagement metrics.
- Participated in Agile Scrum ceremonies and delivered assigned features consistently within sprint timelines and defined project milestones.

## **Java Backend Developer**

**Feb 2021 - Mar 2022**

### **Couth Infotech Pvt Ltd | Hyderabad, India**

- Contributed to backend web application development using Java and J2EE to support internal business systems and operational workflows.
- Implemented server-side logic using Servlets and JSP to process user requests and generate dynamic responses for internal web applications.
- Developed data access layers using Hibernate ORM and SQL, improving consistency and maintainability of database interactions under senior engineer guidance.
- Created basic REST-style endpoints to support internal module communication and data exchange between application components.
- Optimized SQL queries for frequently used reports, reducing execution time for daily operational and reporting tasks.
- Wrote unit tests using JUnit to validate backend logic and reduce recurring defects during development and release cycles.
- Supported build and version control activities using Maven and Git, streamlining local development and code management workflows.
- Collaborated with senior developers and QA teams to fix defects and deliver incremental enhancements aligned with business requirements.

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## **PROJECTS**

### **Mini AI Course Generator**

- Built a backend-driven module using Java and Spring Boot to generate structured course content via AI-powered APIs, reducing manual course outline creation time by approximately 50%.
- Designed REST-based data flow between backend services and a React frontend to manage course inputs and generated outputs, improving workflow usability and consistency.
- Improved processing efficiency by optimizing request handling and JPA persistence with PostgreSQL, achieving 25-30% faster processing for repeated requests.

### **Enterprise Web Application for Business Operations**

- Developed backend business modules using Java and RESTful services to support internal operational workflows and reduce manual task handling.
- Created responsive frontend screens using React, JavaScript, HTML, and CSS, cutting average task completion time by roughly 20% for operational users.
- Integrated Kafka-based asynchronous processing for batch operations, improving system stability and preventing delays during peak usage periods.

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## **EDUCATION**

### **Master of Science in Applied Computer Science**

Southeast Missouri State University | Cape Girardeau, MO

### **Bachelor of Technology in Electronics and Communication Engineering**

J.B. Institute of Engineering and Technology | India

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## **CERTIFICATIONS**

- Java Programming and Software Engineering Fundamentals - **Coursera**
- Building Scalable Java Microservices with Spring Boot and Spring Cloud - **Coursera**
- Full-Stack Web Development with React - **Coursera**
- Developing Cloud Applications with AWS - **Coursera**
- RESTful API Design and Development - **Coursera**
- Generative AI for Software Developers - **Coursera**