# Pavan Sai Kadavakollu

✉ pavansai.kadavakollu@gmail.com   +1 (913) 671-9858   in LinkedIn

## Profile

Experienced Software Developer with 2+ years of hands-on experience in designing, developing, testing, and maintaining scalable software applications. Skilled in Java, Spring Boot, Hibernate (JPA), RESTful APIs, and microservices architecture. Proven ability to work both independently and within Agile/Scrum teams to deliver high-quality software. Committed to writing clean, maintainable, and efficient code following industry best practices. Passionate about continuous learning and staying up to date with modern software development trends.

## Skills

**Front-end:** JavaScript, React.js, Angular, Next.js, Bootstrap, jQuery, HTML5, CSS3
**Back-end:** Java, Python, Node.js, C, C++, ASP.NET, C#, Spring Boot, MVC Framework, RESTful APIs
**Database:** PostgreSQL, MySQL, MongoDB, Oracle, SQL, HSQLDB, DB2, NoSQL
**Tools & DevOps:** Git, GitLab, Visual Studio Code, Docker, Kubernetes, Jenkins, Gradle, Maven, Postman, JUnit, Mockito, Selenium,Agile, JIRA, Scrum, SDLC, Apache Kafka, ELK Stack, Grafana, OAuth 2.0, JWT
**Cloud Platforms:** Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP)

## Professional Experience

**Software Engineer, Capgemini**                                     Mumbai, INDIA |Jun 2021 – Jun 2023
- Developed backend features using **Java** and integrated them with **HTML** and **XML** frontends; utilized **DB2** for database operations to ensure efficient data management.
- Designed and optimized **RESTful API** endpoints, enabling smooth communication between the **Java backend** and **React frontend**, resulting in improved performance and faster response times.
- Collaborated with frontend developers to define clear **API contracts**, ensuring consistent data formatting and streamlining integration between backend and frontend.
- Built and optimized **RESTful APIs** to support the **React** frontend, focusing on performance, scalability, and reliable client-server communication.
- Implemented **state management** on the frontend using **Redux** and **React hooks**, enhancing user experience and ensuring efficient data flow across the application.
- Integrated secure **authentication** and **authorization** mechanisms using **JWT** and **Spring Security**, enabling role-based access control on both frontend and backend.
- **Transitioned the application from a monolithic to a microservices architecture**, improving scalability and maintainability by creating modular, independently deployable services.
- Containerized backend services with **Docker**, ensuring consistency across development, staging, and production environments.
- **Integrated Apache Kafka** for real-time, asynchronous communication between microservices, enhancing system responsiveness and reducing latency.
- **Streamlined** API performance by implementing caching, pagination, and query optimization, resulting in a 15% reduction in response times and improved user experience.
- Responsible for the migration of legacy **batch jobs** to **API-driven services**, automating client data updates and reducing manual intervention.
- Wrote **unit tests** and conducted **end-to-end testing** using **JUnit**, **Mockito**, and **Jest**, ensuring high-quality, stable features.
- Developed comprehensive **API documentation** and frontend guidelines, facilitating smooth collaboration between frontend, backend, and **QA** teams.

## Education

**Master of Science, University of Central Missouri**                    Warrensburg, USA | June 2023 – May 2025
Computer Science                                                            GPA (3.60 / 4.0)

**Bachelor of Engineering, Hindustan Institute of Technology and Science**   Chennai, INDIA | Aug 2017 – May 2021
Computer Science                                                            GPA (9.3 /10.0)

## Achievements

- Winner of the Excellence in Performance Award for demonstrating exceptional performance in optimizing critical sections of the codebase.
- Published a Paper in the Annals of the Romanian Society for Cell Biology Article URL

## Organizations

Computer Society of India                                               Chennai, INDIA | Jun 2018 – Jan 2021

## Certifications

- AWS Certified Cloud Practitioner