

Prasant Kumar Sahu

E-mail: prasantkumarsahu0103@gmail.com

Phone No.: +91-8280822938

Github: [prasantkumarsahu](#)

LinkedIn: [prasantkumarsahu](#)

PROFESSIONAL SUMMARY

Full Stack Java Developer with 3+ years of experience designing and delivering **enterprise-grade applications** using **Java, Spring Boot, Microservices, React.js, and Next.js**. Experienced in building **scalable backend systems, modern frontend applications, AI-powered solutions, and cloud-native deployments** on AWS. Hands-on experience integrating **Generative AI, Python, LangChain, Ollama, MCP, and Vector Databases** for intelligent document processing, retrieval, automation, and enterprise workflows. Experienced in developing **automotive applications**, including **Document Processing Verification (DPV), DeltaDMU, 3D Assembly Viewer, historical records, and automated Delta calculations**. Strong background in **system design, performance optimization, REST APIs, CI/CD, code reviews, technical discussions, and Agile/Scrum delivery**.

TECHNICAL SKILLS

Backend

- Java (8 / 17 / 21 / 25)
- Spring Boot, Spring Cloud, Spring MVC, Spring Security, Spring Data JPA, Reactive Spring
- Microservices Architecture, Restful APIs
- Hibernate, JPA
- Resilience4j
- Apache Kafka

Frontend

- React.js, Next.js, Redux Toolkit
- Javascript, TypeScript
- HTML5, CSS3, Tailwind
- Shadcn, Material UI, Responsive
- RESTful API Integration, Protected Routes, Lazy Loading
- Responsive and Accessible UI Development

Databases

- MySQL
- PostgreSQL
- MongoDB
- Redis

Cloud & DevOps

- AWS: EC2, S3, Route 53, Lambda, SNS, IAM, CloudWatch
- CI/CD: Jenkins, Docker, AWS CodeBuild, CodePipeline
- Container Orchestration: Kubernetes (basic exposure)
- Linux (Shell scripting, server management)

Testing & Quality

- JUnit, Mockito, Unit Testing, Integration Testing
- Code Reviews, Performance Optimisation
- Secure Coding Best Practices

Version Control & Tools

- Git, GitHub, GitLab
- Postman
- IntelliJ IDEA, Cursor, VS Code
- AI Enabled Coding Tools

Core Concepts

- Object-Oriented Programming (OOP), Data Structures & Algorithms
- Design Patterns, System Design
- Scalable Application Design
- Distributed Systems

- Technical Leadership
- Mentoring Developers
- Agile/Scrum
- Stakeholder Collaboration

PROFESSIONAL EXPERIENCE

Senior Software Developer/Application Developer | IBM, India (April 2026 – Present)

Project: Mercedes-Benz (MBRDI) – DeltaDMU | DPV (Document Processing Verification)

- Developed enterprise applications using **Java 21, Spring Boot, React.js, and Next.js** for **automotive document processing, verification, and engineering workflows**.
- Integrated **Generative AI** capabilities using **Python, LangChain, Ollama, MCP (Model Context Protocol), and Vector Databases** to enable intelligent document processing, retrieval, analysis, and automation.
- Developed and enhanced a **3D Assembly Viewer** with **historical records, automotive assembly data, DeltaDMU comparison, and automated Delta calculations** for engineering analysis and verification.
- Built scalable **RESTful APIs and microservices** for document processing, AI integration, data retrieval, historical tracking, and communication between frontend and backend systems.
- Contributed to **AI-driven automation, system design, performance optimization, code reviews, CI/CD, Docker, Jenkins, and Agile/Scrum** development practices.
- Applying **System Design** principles to ensure **Scalability, Fault Tolerance, Maintainability, and Performance Optimization**.
- Participating in **Technical Discussions, Code Reviews, and Agile/Scrum** practices while collaborating with cross-functional teams.
- **Tech Stack:** Java 17/21/25, Spring Boot, Spring Security, Microservices, React.js, Next.js, Python, Generative AI, LangChain, Ollama, MCP, Vector Database, REST APIs, 3D Assembly Viewer, DeltaDMU, Automotive Data, Historical Records, PostgreSQL, AWS, Docker, Jenkins, Redis, Apache Kafka, CI/CD, System Design, Agile/Scrum.

Software Developer | Altruist Technologies Pvt Ltd. (May 2025 – April 2026)

Project: Glow Networks (HR Management Platform for large US-based clients, including Ciena)

- Designed and developed **scalable backend microservices** using **Java 17, Spring Boot, and Hibernate** to support **enterprise-scale HR workflows**.
- Built **secure RESTful APIs** with **validation, exception handling, authentication, and authorization** using **Spring Security**.
- Developed **React.js** and **Next.js** frontend components and integrated them with backend services to deliver **responsive and user-friendly web applications**.
- Collaborated with **Product Owners** and **Stakeholders** to analyze requirements, define **Technical Solutions**, and establish **Project Timelines**.
- Led **Technical Discussions** and contributed to **Architecture** and **System Design Decisions** to ensure **Scalability, Fault Tolerance, and Maintainability**.
- Conducted **Code Reviews** and promoted **Coding Standards, Unit Testing, and Development Best Practices** to ensure **High Code Quality**.
- Mentored **Team Members** on **Java, Spring Boot, React.js, and Microservices Development Practices**.

- Optimized **PostgreSQL** and **MySQL** queries, **Indexing**, and **Hibernate Mappings** to improve **Application Performance** and reduce **API Response Times**.
- Implemented **Event-Driven Communication** using **Apache Kafka** for **Asynchronous Microservice Interaction**.
- Automated **CI/CD Pipelines** using **Jenkins** and **Docker**, enabling streamlined deployments on **AWS**.
- Troubleshooting and resolving **Production Issues**, **Performance Bottlenecks**, and **Software Defects** in a **Fast-Paced Development Environment**.
- Worked closely with **Cross-Functional Teams** in **Agile/Scrum** methodology to deliver **High-Quality Solutions**.
- **Tech Stack:** Java 21, Spring Boot, Spring Security, Hibernate, Microservices, React.js, Next.js, PostgreSQL, MySQL, Apache Kafka, Docker, Jenkins, AWS, Linux, Agile/Scrum

Associate System Engineer | Envotions Technology Services India Pvt. Ltd. (Apr 2023 – Apr 2025)

Project: Nadi – Fund Reporting and Management Tool for Private Equity (Daappa)

- Developed and enhanced **backend services** using **Java** and **Spring Boot** for **financial reporting systems**.
- Designed **RESTful APIs** to support **frontend applications** and **third-party integrations**.
- Worked on **React.js** UI enhancements and **API integration** to improve **user experience** and application usability.
- Delivered multiple **feature enhancements** under tight deadlines while maintaining **high code quality** and **development best practices**.
- Assisted with **Dockerized deployments** and **Jenkins-based CI/CD pipelines** on **AWS**.
- Participated in **client discussions**, **requirement analysis**, and **sprint planning** with cross-functional teams.
- Collaborated in **Agile/Scrum** methodology to deliver **scalable** and **high-quality solutions**.
- Contributed to **bug fixing**, **performance optimization**, and **production support** activities.
- **Tech Stack:** Java 17, Spring Boot, Hibernate, React.js, Redux Toolkit, PostgreSQL, REST APIs, Docker, Jenkins, AWS, Agile/Scrum.

PROJECT HIGHLIGHTS (FULL-STACK)

- Developed **end-to-end full-stack web applications** using **React.js** and **Next.js** for frontend development and **Java** with **Spring Boot** for backend services.
- Designed and implemented **secure RESTful APIs** to integrate frontend and backend systems efficiently.
- Implemented **JWT-based Authentication** and **Role-Based Authorization** using **Spring Security**.
- Built **responsive and user-friendly interfaces** with **React.js**, emphasizing reusable components and modern frontend architecture.
- Deployed and monitored applications on **AWS Cloud** using services such as **EC2**, **S3**, and **CloudWatch**.

CERTIFICATIONS

- **Professional Scrum Master (PSM I)** – [Scrum.org](https://www.scrum.org)
- **Certified Java & SQL Developer with DSA and System Designs** - [Geekster.in](https://www.geekster.in)

