SARADWATA BANDYOPADHYAY

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PROFESSIONAL SUMMARY

Full-Stack Java Developer with expertise in designing, developing, and deploying robust applications using Java, Spring Boot, Hibernate, and React. Skilled in integrating Generative AI tools and APIs to optimize workflows and enhance end-user experience. Proficient in end-to-end software development, microservices, RESTful API design, and agile delivery.

TECHNICAL SKILLS

Languages: Java, C, Python, PHP, SQL
Frameworks: Spring Boot, Spring MVC, Hibernate, J2EE, JUnit, Laravel
Frontend: React, HTML, CSS, JavaScript, Bootstrap
Databases: MySQL, Oracle
Tools: Git, Docker, Eclipse, VS Code, Postman, IBM Cloud
Concepts: REST APIs, Microservices, OOP, Agile, CI/CD, MVC, Generative AI Integration

PROFESSIONAL EXPERIENCE

Application Developer – IBM | Jan 2024 – Present

• Developed and deployed Java Spring Boot + React-based web applications across multiple business domains.
• Integrated Generative AI APIs (OpenAI, IBM Watson) for auto-documentation and intelligent task automation.
• Improved backend performance by 20% through database query optimization and caching.
• Built reusable UI components and implemented secure authentication using JWT.
• Collaborated with agile teams and implemented CI/CD pipelines to automate builds and deployments.

KEY PROJECTS

MediFi – IoT & AI-based Health Monitoring System

Developed an IoT-based system using Python and Flask integrated with AI-driven health analytics for faster patient diagnosis.

ProCoder – AI-Powered VS Code Plugin

Created a Generative AI-powered code suggestion plugin using Python and TypeScript, leveraging open-source LLMs to boost development efficiency.

NewsStore – AI-Enhanced News Aggregator

Implemented a Java Spring Boot app that fetches and summarizes news using NLP models, increasing content visibility and engagement.

VHDL Codes Forum

Built a PHP + MySQL community platform enabling users to share and collaborate on VHDL code for digital design.

Miner – Automated Web Data Extractor

Developed an automated web scraping pipeline using Python (BeautifulSoup) for structured data collection.

EDUCATION

Bachelor of Technology – Computer Science & Engineering
University of Engineering & Management, Kolkata (2019–2023)
GPA: 9.31 / 10

CERTIFICATIONS

AWS Certified Cloud Practitioner
IBM Cloud Advocate Certification

ADDITIONAL INFORMATION

Languages: English, Bengali, Hindi

Soft Skills: Problem Solving, Analytical Thinking, Collaboration, Agile Mindset