

SOURAV KUMAR NAYAK

AI APPLICATION DEVELOPER

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SUMMARY

Computer Science Engineering student skilled in Java, Spring Boot, Microservices, PostgreSQL, Docker, and cloud technologies. Experienced in building scalable microservice-based backend systems, REST APIs, JWT authentication, and AI-powered applications using LLMs and Spring AI. Passionate about Generative AI, RAG, and developing production-ready solutions for real-world problems.

SKILLS

- Languages: C, JAVA, C#, SQL
- Frameworks: Spring Boot, JPA, Angular, Servlets
- Tools: Git, IntelliJ IDEA, VS Code, Docker
- Databases: PostgreSQL, Firebase, MongoDB
- Cloud: AWS, GCP
- Other Skills: RESTful APIs, Microservices, Team Collaboration, Agile, Scrum

PROFESSIONAL EXPERIENCE

AI Intern

January, 2026 – April, 2026

Tata Power Southern Odisha Distribution Limited

- Built AI-powered applications leveraging RAG architecture, vector databases, and LLMs to deliver context-aware responses from enterprise documents.
- Engineered scalable backend services using Spring Boot, Spring AI, and PostgreSQL, implementing multi-model orchestration and API integrations for enhanced AI performance.

Web Development Intern

July, 2024 – September, 2024

Unified Mentor

- Built a web-based Gym Management & Operations Scheduler using Firebase, streamlining member registration, scheduling, and operational workflows.
- Designed responsive user interfaces and integrated Firebase Authentication and Realtime Database to ensure secure and efficient data management.

EDUCATION

BTech In Computer Science & Engineering | *Parala Maharaja Engineering College, Berhampur* 2023 - 2026

- Participated in PMEC Hackathon 2024, developing a Python-based prototype to address real world challenges, demonstrating innovation, teamwork & rapid problem-solving skills.
- Developed StockSync, reducing API response time by 30% through optimized database queries & efficient backend architecture, enhancing overall system performance.

PROJECT

Enterprise LLM Application | Spring AI, RAG, PostgreSQL-Vector

- Built a RAG-based AI document assistant that enables employees to retrieve information from internal company documents securely and efficiently.
- Integrated multiple LLMs using Spring AI and developed backend services with Spring Boot and PostgreSQL for accurate, context-aware responses.

AgroLink | Spring Boot, Microservices, PostgreSQL, Docker - Link

- Built a farmer-centric e-commerce platform using microservices architecture to support scalable and resilient service communication.
- Integrated secure authentication, inventory management, and cloud native deployment practices to improve system reliability.

StockSync | Spring Boot, Angular, PostgreSQL, JWT - Link

- Developed a full-stack inventory management system with secure JWT based authentication and role-based access control.
- Implemented product, purchase, sale, and return management modules, optimizing inventory tracking and reporting processes.

CERTIFICATIONS & RESEARCH WORK

- Java Spring Framework, SQL & PostgreSQL, C#, Internet & Web Technology, PMEC Hackathon 2024
- Research manuscript under editorial review on adaptive CPU scheduling techniques to optimize process execution and system performance.