

Nayabrata Swain

Software Engineer

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SUMMARY

Software Engineer with experience owning backend architectures and developing scalable microservices for enterprise applications. Proven background in leading end-to-end service development, conducting code reviews, writing unit and integration tests, and mentoring junior developers. Specialized in delivering robust streaming, media management, and logistics solutions using modern software engineering practices.

EXPERIENCE

Software Engineer

PruTech Solutions India Pvt. Ltd.

Apr 2024 – Present

- Owned end-to-end backend architecture and services for a Video Management System (VMS) supporting recording, playback, and on-demand streaming.
- Engineered scalable microservices for a multi-tenant Logistics Management System (LMS) handling complex operational workflows.
- Mentored junior developers, executed pull request reviews, and authored comprehensive unit and integration tests to ensure code quality.

EDUCATION

Centurion University of Technology and Management · B.Tech · 2020 – 2024

SKILLS

Languages and Frameworks: Java, Python, Spring Boot, Spring Data JPA, Spring Data MongoDB, Spring Security

Databases: MongoDB, PostgreSQL

Tools: Apache Kafka, AWS, Claude Code, Codex, Cursor, Docker, Git, GitHub, GitHub Copilot, JUnit, JWT, Keycloak, Linux, Maven, Microservices, Multi-tenancy, Nginx, REST APIs, Spring Boot integration testing, SVN, Swagger / OpenAPI

PROJECTS

Video Management System (VMS) — recording & streaming platform

Owned the backend end-to-end — recording, playback and on-demand streaming services in Spring Boot — from architecture through production support. Led the ONVIF certification effort.

Java, Spring Boot, MediaMTX, WebRTC, ONVIF, MongoDB

Logistics Management System (LMS) — Odisha Mining Corporation

Built and maintained Spring Boot and MongoDB microservices covering end-to-end logistics workflows for a state mining operator.

Implemented a multi-tenant architecture across three services.

Java, Spring Boot, MongoDB, Kafka, Keycloak

AWARDS

AWS Certified Cloud Practitioner, Data Structures & Algorithms