

Sandeep Kumar Swain

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EXPERIENCE

Software Development Engineer - II

Sep 2025 – Present

Nykaa (FSN E-Commerce Ventures Ltd) SpringBoot, Django, AWS, MySQL

Gurugram, HR

- Architected and implemented the **migration of 100+ scheduled jobs to an event-driven system** using AWS Lambda, SNS, and SQS in a fan-out architecture, **improving execution latency by 40%** and enhancing fault tolerance.
- Developed a **secure vault service** for sensitive user data storage and retrieval, ensuring 100% DPDPA compliance and **reducing access-related vulnerabilities by 35%**.
- Spearheading the **‘One Nykaa One Identity’** initiative to unify authentication across all business units, driving a **50% reduction in duplicate user profiles** and improving **SSO login success rates by 20%**.

Software Development Engineer - I

Apr 2024 – Sep 2025

Jungle Games India Pvt Ltd

SpringBoot, Kafka, Redis, PostgreSQL

Bengaluru, KA

- Developed backend modules for internal admin dashboards using a **JSON-based templating framework**, **reducing code duplication by 45%** and improving feature release velocity.
- Led the end-to-end integration of a **centralized shared wallet system across 5+ gaming titles**, improving transaction consistency and **reducing cross-platform payment errors by 40%**.
- Managed integration of third-party identity verification services (Hyperverge, Digilocker) with secure Aadhaar masking, **cutting manual KYC verification time by 60%** while ensuring compliance standards.

Software Development Engineer - Intern

Jun 2023 – Aug 2023

Microsoft India

FastAPI, LangChain, Docker, Python

Hyderabad, TS

- Contributed to an **internal LLMQL tool**, a structured query language simplifying how developers retrieve data from large language models, **improving query efficiency and developer productivity by 30%**.
- Engineered the **core parser and interpreter** enabling SQL-like query translation into complex LLM backend operations, **reducing query complexity by 40%**.
- Collaborated with the Microsoft Research team to refine syntax and semantics, enhancing expressive power and lowering the onboarding curve for developers building LLM-integrated applications.

PROJECTS

Self-Hosted Platform | Docker, Linux, Cloudfare, Nginx

July 2025

- Architected a personal cloud on a Raspberry Pi, managing **over 40 containerized services** with Docker and Linux, achieving **99.9% uptime**.
- Deployed a full-stack media, gaming, and productivity ecosystem featuring automated content acquisition, cloud storage, and photo management tools.
- Implemented robust security and access control with centralized authentication, self-hosted password management, and secure tunneling for remote access.
- Established a resilient network infrastructure with a reverse proxy, network-wide ad-blocking via DNS filtering, and a secure VPN mesh network for seamless device connectivity.

EDUCATION

Kalinga Institute of Industrial Technology

Sep. 2020 – Apr 2024

B.Tech. (Hons.) in Computer Science and Engineering - **9.22 CGPA**

Bhubaneswar, OD

TECHNICAL SKILLS

Languages: Java, JavaScript, Python

Frameworks: Next.js(React), Vue.js, Node.js, SpringBoot, Vertx

Developer Tools: AWS, Git, Docker, Redis, Kafka, Postman

Databases: Postgres, Starbust, Firestore, MongoDB, HyGraph CMS

ACHIEVEMENTS

- Top Rookie** (2024) and **Troubleshooter** (2025) awardee at *Jungle Games* for outstanding technical contributions.
- App Dev Lead** at *KIIT Konnexions* (2022–2024), leading multiple projects and mentoring junior developers.
- Secured **3rd place** in KPMG Capture The Flag (CTF) 2023 and **7th place** in NIT Durgapur DGPLUG MiniCTF 2023.