

Sandeep Kumar Swain

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EXPERIENCE

Software Development Engineer - II	Sep 2025 – Present
<i>Nykaa (FSN E-Commerce Ventures Ltd)</i> <i>SpringBoot, Django, AWS, MySQL</i>	<i>Gurugram, HR</i>
<ul style="list-style-type: none">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
<i>Junglee Games India Pvt Ltd</i> <i>SpringBoot, Kafka, Redis, PostgreSQL</i>	<i>Bengaluru, KA</i>
<ul style="list-style-type: none">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
<i>Microsoft India</i> <i>FastAPI, LangChain, Docker, Python</i>	<i>Hyderabad, TS</i>
<ul style="list-style-type: none">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 <i>Docker, Linux, Cloudflare, Nginx</i>	July 2025
<ul style="list-style-type: none">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 <i>B.Tech. (Hons.) in Computer Science and Engineering - 9.22 CGPA</i>	Sep. 2020 – Apr 2024 <i>Bhubaneswar, OD</i>
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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, Starburst, Firestore, MongoDB, HyGraph CMS

ACHIEVEMENTS

- **Top Rookie** (2024) and **Troubleshooter** (2025) awardee at *Junglee 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.