HIMANSHU SAINI

Software Engineer II (Backend)

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Professional Summary

Results-driven **backend software engineer with 4+ years of expertise** in Java, Python, and Ruby, specialising in microservices, multitenant architectures, and event-driven architecture. Proficient in high-level design (HLD), low-level system design (LLD), and AWS cloud, with a strong track record of developing scalable systems.

Professional Experience

Software Engineer 2 | Nykaa (Bengaluru, India) | Beauty and Fashion E-Commerce Platform **Oct '24 - Present**
Technologies Worked: *Java, Spring Boot, Python, Redshift, AWS, Docker, ECS/EC2, DynamoDB, SQS, Konga*

- Key contributor to the NES team, **owning the deployment of 40%** Nykaa microservices in the UAE region.
- Acquired an architectural understanding of all Nykaa's services for better designing multi-tenant changes.
- **Designed and documented LLD** of features like config management, tenant onboarding, pipeline deployments and branching strategy needed for converting the current stack to Multi-tenant services.
- **Owned the Data Science side of work** for NES team for quick feature deployment, gaining understanding of Redshift, Airflow, and Spark DAGs.
- **Acted as a communication bridge** between our UAE partners and various platform teams, directing work and unblocking feature development.
- Led efforts to remove resource-specific hard-coding, enabling multi-region deployments and multitenancy.
- **Collaborated with platform teams** to resolve architecture bottlenecks, ensuring **on-time deployment of services**.
- **Presented scalable solutions** in cross-team discussions, addressing challenges in multi-region infrastructure.

Software Engineer - Backend | Amoga (Bengaluru, India) | Low-Code No-Code Enterprise Software **Aug '22 - Oct '24**
Technologies Worked: *Java, Spring Boot, Python, Django, FastAPI, PostgreSQL, Redis, Socket IO, Docker*

- **Own the Workflow Automation service**, driving v2 development and deployment for seamless business workflows.
- Built logic for app studio publish, **accelerating application creation by 10x** and boosting usability.
- **Designed and implemented an RBAC system** for precise access control, enhancing user management capabilities.
- **Reduced code redundancy by 20%** through module refactoring and reusable helper functions.
- Optimised socket messaging with Redis, **reducing redundancy by 50% in targeted communication**.

Software Engineer - Backend | TailNode (Gurgaon, India) | Software consultancy **Oct '21 - Aug '22**
Technologies Worked*: DRF, Python, Ruby-on-Rails, MySQL, AWS, Heroku*

- Delivered **3 end-to-end projects**, overseeing development, deployment, and post-launch support.
- **Mentored 3 interns**, streamlining onboarding and task allocation, achieving faster team ramp-up.
- Started and **owned project development in Python**, which improved project capabilities and talent hiring

Skills

- **Programming Languages:** Java, Python, Ruby
- **Frameworks:** Spring/Spring Boot, Django - REST, FastAPI, Ruby-on-Rails, Spark
- **Databases:** MySQL, PostgreSQL, Cassandra, Redis, Redshift
- **DevOps:** Git, Docker, Kafka, AWS (EC2/ECS, DynamoDB, IAM, Lambda)
- **Core Competencies:** REST APIs, Microservices Architecture, AI Prompting, DSA, System Design

Education

Bachelor of Engineering, Computer Science Majors | 8.1 CGPA **May '17 - May '21**
Jaypee Institute Of Information Technology *Noida, India*
Higher Secondary (CBSE) | 81.8% **April '15 - Match '17**
Gyan Bharati School *Saket, Delhi*

Projects and Achievements

Awarded as "The Bright Spark" at Nykaa
Awarded by the Nykaa leadership in the company-wide tech townhall for my ownship and contribution to NES project within 10 months of joining the organisation.

Multi-tenant storage platform for the healthcare industry
Built a scalable, fault-tolerant storage solution using Cassandra and Redis, leveraging multi-tenancy to reduce infrastructure costs by 25%.

Publication

A Load Balancing-Based Cost-Effective Multi-Tenant Fault-Tolerant System
Published in *Lecture Notes in Networks and Systems, Springer, vol. 204 (2021)*. [**https://doi.org/10.1007/978-981-16-1395-1_61**]