




Yagya Singh

Senior Backend Engineer

 yagya.s.rajawat@gmail.com |  +91-9870434496 |  Bangalore, India

Professional Summary

Backend-focused Senior Software Engineer with 8+ years of experience designing and scaling SaaS APIs and cloud-native architectures. Proven expertise in **Python, SQLAlchemy, AioHttp, Pandas, NumPy, and Postgres**, delivering resilient solutions for high-volume enterprise systems. Experienced in building **Scalable order management, and optimization engines** that enhance developer productivity and code quality. Adept at driving end-to-end product lifecycle — from ideation to deployment — in dynamic, fast-paced environments.

Work Experience

Ernst & Young LLP | Senior Software Developer

Dec 2020 – Present | Bangalore, India

- **Designed and scaled SaaS APIs** in Python with SQLAlchemy, AioHttp, Pandas, and NumPy, deployed on AWS/Azure, ensuring high performance under internet-scale workloads.
- Spearheaded a **production planning web application** (Python, Angular, Postgres) cutting production lead times by 20% and reducing stockouts by 15%.
- Architected a **real-time order management system** with Angular frontend and Python backend on AWS, improving precision in order allocation and supporting 1M+ daily transactions.
- Built a **truck load optimization engine** with Python & advanced analytics on Azure, reducing transportation costs by 25% while enhancing delivery efficiency.
- Delivered a **custom workflow orchestration service** (Python Asyncio, Redis, AioHttp) that reduced process cycle times by 50% and improved cross-team collaboration.
- Integrated **GenAI-assisted validation modules** into supply-chain pipelines, improving anomaly detection and reducing manual intervention.

Tech Stack: Python, SQLAlchemy, AioHttp, Pandas, NumPy, Angular, PostgreSQL, Redis, AWS, Azure, Git, CI/CD

Iboxz Technologies Pvt. Ltd. | Chief Technical Officer

Apr 2018 – Dec 2020 | Bangalore, India

- Designed **scalable SaaS microservices** architecture with Django + GCP, enabling modular growth and high availability.
- Built backend APIs for **edtech & developer tooling platforms**, integrating modern CI/CD pipelines and containerized deployments.

- Established **BDD testing frameworks**, improving release confidence and reducing bug rates by 30%.
- Actively collaborated with investors & stakeholders, securing product funding by demonstrating value through robust backend architecture.

Tech Stack: Django, Python, PostgreSQL, React Native, Docker, GCP, CI/CD

National Payment Corporation of India (NPCI) | Assistant Manager

Jul 2016 – Oct 2017 | Hyderabad, India

- Managed **mission-critical backend systems** for UPI and IMPS, ensuring high-availability and low-latency payment transactions.
 - Optimized **data center backend infrastructure**, improving transaction execution times and enhancing disaster recovery capabilities.
 - Conducted in-depth **data analysis & backend optimization** for digital payments (FASTag, CTS, NACH), enabling scale at a national level.
-

Technical Skills

- **Programming & Backend:** Python, SQLAlchemy, AioHttp, Django, Asyncio, Redis, Pandas, NumPy
 - **Databases:** PostgreSQL, Oracle, SQL
 - **Cloud Platforms:** Azure, AWS, GCP
 - **Frontend:** Angular, React Native
 - **Practices:** SaaS Architecture, Microservices, Agile, CI/CD, Git
-

Education

Master of Science (MSc. Tech), Information Systems

Birla Institute of Technology & Science (BITS), Pilani | 2012 – 2016

Key Achievements

- Built and deployed **internet-scale SaaS APIs** with high uptime and performance benchmarks.
- **Reduced infra costs by 25%** through optimization of backend services and transport algorithms.
- Recognized for **system scalability & architecture design** in edtech, SaaS, and supply chain domains.