Nitin Singh Samant

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PROFESSIONAL SUMMARY

Results-oriented Python Developer with nearly 3 years of experience in building scalable backend systems, REST APIs, and automation-driven enterprise solutions. Skilled in system integration, database management (SQL), and designing efficient solutions for production environments. Experienced in L2 support, monitoring, and maintaining distributed backend services. Proven ability to collaborate with cross-functional teams to deliver reliable and high-performance systems. Strong understanding of software development lifecycle, CI/CD practices, and process optimization. Adept at translating business requirements into effective technical solutions and improving system stability in demanding environments.

PROFESSIONAL EXPERIENCE

Software Development Engineer I
Jio Platforms Ltd. — June 2024 – Present — On-site

- Built automated **EDA pipelines** using Python and Jupyter Notebook to analyze and restructure large volumes of production defect data, improving root-cause analysis speed by **40%**.

- Engineered and deployed a **production-grade UI utility with full backend integration** for **BundleEther bandwidth aggregation**, enabling dynamic creation and merging of high-capacity bundles (e.g., 1000 Gbps + 1000 Gbps + 1000 Gbps) to deliver maximum throughput to enterprise customers.

- Designed backend service logic to support seamless bandwidth provisioning and bundle orchestration, ensuring high reliability during high-traffic scenarios.

- The feature is currently **live in production** and scheduled for utilization during high-demand events such as **IPL**, supporting scalable bandwidth delivery.

- Developed Linux shell scripts for log rotation, backups, and system monitoring improving operational efficiency and system reliability.

Software Development Engineer
Jio Platforms Ltd. — Feb 2024 – June 2024

- Contributed to backend frameworks for monitoring service requests and production defects.

- Designed background processing workflows for alarms and system alerts ensuring timely issue resolution.

- Developed and deployed **2–3 web-based utility applications** currently live in production, improving customer experience and enabling seamless service usage.

- Built responsive frontend interfaces and integrated backend APIs to streamline operational workflows and reduce manual support efforts.

- Assisted in automation of reporting processes improving defect visibility across engineering teams.

- Collaborated with cross-functional teams to optimize system performance and enhance overall production stability.

Graduate Engineer Trainee (GET)
Jio Platforms Ltd. — Dec 2023 – Feb 2024

- Designed and developed a **real-time Defect Monitoring Dashboard** using **React**, enabling engineering teams to track production issues efficiently and reducing defect triage time by **35%**.

- Developed backend APIs using **FastAPI** to support dashboard integration and structured data retrieval.

- Assisted in backend monitoring system development and Python-based automation script implementation.

- Supported L2 monitoring activities and defect tracking workflows.

- Gained hands-on exposure to enterprise deployment practices and distributed system operations.

PROJECTS

Web-based Task Automation System
Python, MySQL

- Built a lightweight web application using Python to automate repetitive workflows.

- Designed optimized MySQL schemas for efficient data storage and retrieval.

- Improved team productivity by replacing manual processes with automated scripts.

RESTful API for Inventory Management
Python, FastAPI, SQLite

- Developed and deployed a scalable REST API with complete CRUD functionality.

- Implemented request validation and structured JSON response handling.

- Tested endpoints using Postman ensuring reliability and performance.

Data Analytics Dashboard
Python, Pandas, Matplotlib

- Designed a Python-based analytics dashboard for dataset visualization.

- Performed data cleaning and exploratory analysis using Pandas and NumPy.

- Generated actionable insights through visual reports for decision-making.

SKILLS

- **Programming:** Python, SQL

- **Backend:** Java, FastAPI, RestAPI

- **Databases:** MySQL, SQLite, Neo4j

- **DevOps & Tools:** Git, Docker, Azure, CI/CD

- **Libraries:** Pandas, NumPy, Matplotlib

EDUCATION

MBA in Data Science and Artificial Intelligence (Pursuing)
Chandigarh University — GPA: 9.02 — Expected 2027

Bachelor of Engineering in Computer Science
Chandigarh University — Percentage: 77.7 — 2023

CERTIFICATES

- Jio Certified Google Cloud Platform Professional

- DevOps Foundations

- Prompt Engineering for Generative AI

- Getting Started with Python

- Jio Certified Cursor Developer Certification