SANDEEP GUPTA

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SUMMARY

Software Engineer with 4 years of experience building resilient APIs and automating large-scale workflows. Delivered high-availability services processing 1M+ jobs and monitoring tools that reduced incident detection time by 75%. Skilled in Python, cloud infra, with a proven record of performance tuning, improving reliability and engineering efficiency.

SKILLS

Languages and Frameworks: Python (Django, Flask, FastAPI), Java, React, Pydantic

Cloud and Infrastructure: Azure (ACA, ACR, OpenAI), AWS, Docker (Compose), GitLab CI/CD, Liquibase, Shell Scripting

Databases: PostgreSQL, MySQL, MongoDB, Redis, vectorDB (pgvector)

Systems and Monitoring: Linux (cron), Concurrency mitigation, Containerized app development, RAG model

EXPERIENCE

Software Engineer | Intel Corporation — Sep 2022 – Nov 2024

- Reduced reset failures by 10%, eliminating race conditions, **data integrity risks** and manual overhead, by utilizing resource-specific file locking, and ensuring uninterrupted workflow execution.
- Accelerated incident detection time from 2 hours to 30 minutes by developing a Python-based **monitoring tool** with SQL integration and cron scheduling, **enhancing SLA adherence**.
- Improved **developer productivity** and saved **~50 engineering hours/month** by decoupling deletion workflow and creating CLI executable python script, bypassing reset error encountered via the interface during feature testing.
- Trimmed runtime crashes by 20%, replacing exit calls with exception handling and traces, increasing reliability.
- Standardized Liquibase tagging and migration naming conventions, enabling **safer rollbacks** across environments.
- Revised **Redis integration** by replacing deprecated methods for Redis 4.x compliance, mitigating version failures.
- Slashed execution time by 15%, enhancing database performance by optimizing views, functions, and queries.

Systems Analyst | Arizona State University — Jan 2021 – Jul 2022

- Increasing reliability and reduced processing time 30% by automating resource allocation using Python/MySQL.
- Migrated employee data pipelines to **AWS infrastructure**, using RDS, S3, and Lambda, reducing overhead.
- Mitigated 18% crashes and boosted of the ASU CSE employee portal by configuring inconsistent UI scripts.

Software Engineer | RNG Group of Institutions — Jul 2019 – Dec 2020

- Increased website availability by 30%, by architecting a high-throughput **data pipeline** for large-scale traffic.
- Handled 10,000+ users and scaled smoothly, designed RESTful API to connect **React frontend** and **Django backend**.
- Reduced extraction time by 40%, by normalizing schemas and optimizing MySQL queries to improve performance.

PROJECT

Chat with Docs: Retrieval-Augmented Generation Chatbot (Github) — Sep 2025 – Nov 2025

- **Developed a RAG chatbot** using FastAPI, pgvector, and Azure OpenAI to retrieve/generate context-aware answers.
- **Deployed to Azure Container Apps with Azure PostgreSQL**, adding LLM fallback for reliable, low-latency queries.

EDUCATION

Master of Science (Information Technology) **|** Arizona State University, Tempe, AZ — Jan 2021 – Aug 2022

Bachelor of Technology (Information Technology) **|** UPTU, India — Sep 2015 – Jul 2019