

Shivam Gupta

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SUMMARY

Python Backend Engineer with 2+ years building production-grade **FastAPI** microservices, async data pipelines, and **LLM-powered automation** for enterprise treasury and ESG clients. Shipped an **AI reconciliation engine** using the **OpenAI API** to automate financial data validation across custodian banks, and use **AI-augmented development tools** (**Claude Code**, **OpenAI Codex**) daily to accelerate coding, debugging, and testing. Strong in **Python**, **AWS** (Lambda, SQS, S3, CloudWatch), **PostgreSQL**, and scalable multi-tenant system design.

EXPERIENCE

Kizora Software Pvt. Ltd.

Sept 2023 – Present

Data Engineer | Backend Developer | Automation Intern

Nagpur, India

Data Engineer

Jan 2025 – Present

- Architected a **production-grade multi-tenant financial transaction microservice** using **FastAPI** and async **Python**, ingesting **5+ instrument types** (CPs, T-Bills, Bonds, Agencies, Corporate Bonds) for enterprise treasury clients across **3+ tenants**; streamlined heterogeneous format parsing (CSV, JSON, TXT) via **Polars** and **Dask**, cutting high-volume processing time by **~40%**.
- Designed and built an **AI-powered reconciliation engine** in **Python** using the **OpenAI API** to cross-check daily securities holdings from custodian banks against the platform's internal balance sheet and flag mismatches without manual review; built around **configurable column-mapping profiles**, letting new custodian banks be onboarded via a mapping definition instead of new integration code.
- Engineered **10+ RESTful APIs** backed by **PostgreSQL** and **SQLModel** for CUSIP-level transaction ingestion and querying; authored an internal Python package (managed with **uv**) for tenant-aware **SQLAlchemy** model generation and schema migrations, eliminating **100%** of manual per-tenant setup overhead.
- Integrated **AWS SQS** for event-driven messaging and **AWS Lambda** for serverless processing; applied **asyncio/httpx** for concurrent calls, cutting latency **~35%** while remediating **100%** of vulnerabilities flagged by **AWS Inspector** each cycle.
- Use **AI coding assistants** (**Claude Code**, **OpenAI Codex**) daily throughout the FastAPI/Python codebase for scaffolding endpoints, debugging async issues, and generating unit tests and documentation.

Backend Engineer

Nov 2023 – Jan 2025

- Authored **15+ RESTful APIs** across a **Spring Boot** client-facing application (Angular frontend) and a **Quarkus/Kafka/Redis** microservices platform, implementing **OAuth2** authentication and shipping backend updates to **AWS** through bi-weekly release cycles.

Automation Intern

Sept 2023 – Nov 2023

- Built a **Selenium** test automation framework (PageFactory pattern, Java) covering **30+ end-to-end test cases** for an ESG application, wired into **CI/CD**, cutting manual QA effort by **~50%**.

Persistent Systems

Jan 2023 – Jun 2023

Software Intern

Remote / Pune, India

- Completed **6-month** structured training in **C#, ASP.NET MVC**, and enterprise web development across **3+ hands-on projects**.

EDUCATION

Shri Ramdeobaba College of Engineering and Management

Nagpur, India

BE in Computer Science | GPA: 8.8

Aug. 2019 – July 2023

Bhavans Vidya Mandir, Shrikrishna Nagar

Nagpur, India

Higher Secondary Certificate | Percentage: 83.4%

Aug. 2016 – May 2018

PROJECTS

Predictive Text Generation System | *Python, TensorFlow, Keras, Flask, Bi-LSTM, NLP*

- Attained **91% accuracy** with a Bi-LSTM model (vs. **74%** for standard LSTM) trained on **20,000+ input sequences**, validating a **17-point** accuracy gain from bidirectional context modeling; served real-time next-word predictions via a **Flask** web interface with sub-second response time.

ACHIEVEMENTS AND ACTIVITIES

Key Highlights

- Ranked **3rd at college level** on GeeksForGeeks (**2200+** score) [Profile] and solved **700+ problems** on LeetCode [Profile]; published **2 research papers** on deep learning; recognized by the **CEO of Kizora Software** for outstanding performance.

TECHNICAL SKILLS

Languages: Python, SQL (Postgres/MySQL), Java, JavaScript, C/C++, C#, HTML/CSS

AI / LLM: OpenAI API, Prompt Engineering, AI-Augmented Dev (Claude Code, Codex)

Python: FastAPI, Flask, Pandas, Polars, Dask, TensorFlow, Keras, SQLAlchemy, asyncio

AWS: Lambda, SQS, S3, ECR, CloudWatch, Inspector, IAM

Other Frameworks: Spring Boot, Quarkus, ASP.NET MVC, React, Selenium, JUnit

Dev Tools: Git, Docker, Kafka, Redis, OAuth 2.0, CI/CD, Microservices, REST APIs