

Abhishake Gupta

Senior Python Engineer
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Professional Summary:

Highly experienced Senior Python Engineer with a proven track record in developing scalable, high-performance backend systems and data-intensive applications. Possesses a strong passion for financial markets, demonstrated through practical experience with trading APIs and dedicated certifications in trading strategies and technical analysis. Seeking to leverage extensive software engineering expertise to solve complex challenges in a Quantitative Developer or Algorithmic Trading role.

Technical Expertise:

- Programming : **Python** (Advance), **Javascript & Golang** (Basic to Intermediate)
- Backend Frameworks : Flask, Django, FastAPI, RabbitMQ
- Quant & Data Lib : Pandas, NumPy, SciPy, Scikit-learn, Matplotlib, Celery
- Databases : RDBMS (PostgreSQL, MySQL), NoSQL (MongoDB), Elasticsearch
- Infra & DevOps : Docker, Kubernetes, CI/CD, Git, AWS (EC2, S3, Lambda), Jenkins.
- Monitoring Tools : Sentry, Datadog, ELK Stack, Splunk, New Relic, Zabbix

Professional Experience:

Senior Software Engineer | Itsacheckmate (Direct Ordering) | July 2023 - Present

- Engineered a full-stack management portal, featuring a React frontend and a Flask backend, with a robust RESTful API for complex data operations and entity management.
- Expanded core platform capabilities by successfully integrating a suite of third-party services via their REST APIs, handling diverse data formats and authentication patterns including payments (Valutec), logistics (DoorDash, UberDirect), and loyalty services (Como, Punchh, Sparkfly).
- Led the continuous refactoring and optimization of a legacy codebase, significantly improving architectural integrity and reducing technical debt to enable new feature development.

Senior Software Engineer | Bluetick Consultants | Aug 2022 - June 2023

- Architected and developed a scalable, seller-centric e-commerce platform, designing the backend infrastructure to handle high-volume inventory management and order processing.
- Built a performant Golang microservice to model and manage complex hierarchical data, a skill directly applicable to financial data structures like portfolio trees or options chains..
- Engineered a Python-based algorithmic trading framework to interface with Zerodha's Kite API, featuring modules for historical data ingestion, strategy backtesting, and live signal generation.

Senior Software Developer III | Rackspace Technology | Nov 2019 - Aug 2022

- Reduced API latency by 60% by engineering asynchronous data collection tasks (RabbitMQ/Celery) and decreased SLA resolution time by 70% with custom automation tools.

- Led the migration of monolithic applications to a scalable, containerized microservice architecture using **Kubernetes** and **Docker**.
- Drove the re-architecture of a **Flask-based** backend into a modern **React** Single Page Application (**SPA**) to enhance frontend performance and user experience; improving page load times by 50%
- Enhanced a large-scale data collection and analysis platform for hardware vendors (DELL, NetApp, PureStorage) and automated API testing via Postman to ensure reliability.

Senior Software Engineer (ETL) | Gemini Solutions | Dec 2017 - Nov 2019

- Built an automated monitoring system to calculate and report on real-time data replication delays between **Sybase** and **Oracle** databases, ensuring cross-platform data consistency
- Automated critical data ingestion workflows by developing robust **ETL** scripts to interface with secure file transfer protocols (**SFTP/FTPS**), managed through an enterprise scheduler (**Autosys**).
- Developed an automated testing framework by creating a dynamic wrapper for **QuerySurge**, enabling scheduled execution and **real-time status reporting** for data validation test suites.

DevOps Engineer | Global Analytics | Aug 2016 - Nov 2017

- Partnered with developers to implement an advanced monitoring web tool (DONS) **RESTful API** in **Django** that **reduced manpower by 80%** for issue identification & escalation, based on Zabbix.

Senior System Engineer (Ops) | Infosys | Feb 2014 - July 2016

- Engineered a tool to parse and analyze test logs, automating the generation of structured reports in Excel.
- Manual configuration and access management of the SVN system.

Other Projects:

- Engineered a complete trading system using Python to interface with APIs from Interactive Brokers and the NSE; developed modules for real-time data handling, strategy implementation, and order execution.
- Wrote **Django Api's** for descriptive & predictive analysis of **corona** patients vitals viz. USG & x-ray.

Relevant Certifications:

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|---|-----------|
| ➤ Advanced Options Concepts - Probability, Greeks, Simulation | Jan, 2024 |
| ➤ Complete FastAPI course with OAuth and JWT | Jan, 2023 |
| ➤ Stock market factor investing quantitative trading, Udemy | Dec, 2022 |
| ➤ Advanced Interactive Brokers API, Udemy | Nov, 2022 |

Educational Qualification:

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| ➤ Bachelor of Tech [ECE] (76%) | BPIT, Rohini (GGSIPU), Delhi | 2013 |
| ➤ Senior Secondary (80%) | Bal Bharti Public School, CBSE Delhi | 2009 |
| ➤ Higher Secondary (87%) | J.M. Senior Secondary School, CBSE Delhi | 2007 |