Mihir Sampat

Director of Software Engineering

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Summary

Experienced Python Engineer with 7+ years of expertise in building scalable backend systems, cloud-native applications, and data-driven solutions. Proficient in deploying and managing services on GCP and AWS using Docker, Kubernetes, and Pub/Sub, with a strong track record in architecting high-performance microservices and automating data pipelines. Adept at leading cross-functional teams, optimizing CI/CD workflows, and delivering secure, reliable, and production-grade solutions.

EXPERIENCES

Director of Software Engineering

November, 2023 - Present

Adaptive Investments Solutions, LLC, Remote

- Lead a 12-person, pan-India/Boston engineering org (design, FE, BE, infra, data)
- Slashed cloud spend from USD 200k ⭢ 80k by migrating monolith to Docker-based microservices & AWS Lambda
- Own 99%+ uptime SLA; platform ingests 1TB data/day with < 250ms P95 latency
- Productised research team's option-hedging logic into Market Shield—drove new ARR (confidential)
- Raised hiring bar: instituted code-review rubric; attrition held below 5%

Sr. Software Developer

April, 2022 - November, 2023

Adaptive Investments Solutions, LLC, Remote

- Built Market Shield (Python, AWS): protects client equity portfolios; cut API response from 20s ⭢ 3s
- Deployed on-the-fly beta/volatility calc via linear regression on streaming data
- Mentored two juniors; one promoted to Software Developer II within nine months
- Leveraged Next.JS and React to create responsive frontend for data visualization and decision support
- Collaborated with data scientists to develop and deploy ML models for market trend prediction
- Utilized py_vollib library in algorithms to hedge user portfolios and optimized lambda functions

Full Stack Developer

August, 2021 - April, 2022

Adaptive Investments Solutions, LLC, Remote

- Delivered CI/CD pipelines, API Gateway, five internal Python libraries, and 100GB/day data-scraping service
- Collaborated with UX to improve dashboard load time by 30% (A/B test, n=1k users)
- Designed and developed entire backend stack using Python for real-time analysis of massive market data
- Implemented multi-account AWS infrastructure and development pipeline
- Managed PostgreSQL databases, optimizing performance and ensuring data consistency

EXPERIENCES

Data Engineer

July, 2021 - July, 2021

CRG Solutions Pvt. Ltd., Mumbai

- Processed 2TB/day marketing data in PySpark for targeted-ads pipeline; boosted campaign CTR by ~8%
- Developed and maintained PySpark jobs for processing large volumes of user data
- Designed and implemented ETL processes to extract, transform, and load data into centralized data lake on AWS
- Optimized performance of big data processing tasks, ensuring timely completion and efficient resource utilization
- Ensured data security and compliance with data protection regulations

Software Engineer

December, 2016 - September, 2018

Autosys Industrial Solutions Pvt. Ltd., Mumbai

- Developed sensor-data acquisition for manufacturing vertical; integrated with SCADA to cut downtime 12%
- Developed statistical solutions for analyzing raw industrial current data using Python and statistical packages
- Implemented data ingestion pipelines, ensuring data integrity and quality
- Designed and developed backend services using Python and React for data visualization and analysis
- Implemented and maintained database structures using MySQL, optimizing performance and ensuring data security
- Deployed and managed applications on AWS, leveraging cloud services for scalability and cost optimization

Education

Bachlor's degree, Information Technology

2013 - 2018

K. J. Somaiya College of Engineering, Mumbai, Mumbai

- Activities and societies: Participated in the Marketing team in First Year for Sympony 2013-2014 (Cultural Fest of the college)
- Managed the Badminton team during the second and the third year. 2014-2015, 2015-2016
- Second Runner Up in Badminton during SKREAM 2017 (Sports festival of the college) 2016-2017
- Participated in Prakalp 2016-2017

Graduate Certificate Program in Data Science and Engineering-

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S P Jain School of Global Management, Mumbai, Mumbai

Languages

English	C2
Gujrati	C2
Hindi	C1

Skills

, Python , AWS , SQL , JavaScript

Links

https://mihirsampat.github.io/portfolio/