AMOD DHOPAVKAR

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EDUCATION

Master of Computer Science, Northeastern University — Aug 2022 - Dec 2024
Relevant Coursework: Cloud Computing, Software Desgin Patterns, Parallel Data Processing, DBMS

Bachelor of Information Technology, University of Pune — Aug 2017 - May 2021
Relevant Coursework: Computer Networks, Operating Systems, Web Development, Internet of Things

EXPERIENCE

Software Engineer — Dec 2024 - Present
Goldman Sachs — *Salt Lake City, UT*

- Developed and maintained scalable backend systems using **Java** and **Python** to ensure compliance with financial regulations, reducing system downtime.
- Implemented efficient data pipelines with **Kafka** and **Spark** for real-time processing of compliance data, improving data accuracy and timeliness for regulatory reporting.
- Streamlined alerting and monitoring systems with **Grafana** and **Prometheus**, reducing incident response times for compliance-related anomalies.

Software Engineer Intern — May 2024 - Aug 2024
DataRobot — *Boston, MA*

- Developed and deployed three full-stack applications using **Streamlit, Python,** and **DataRobot** platform enabling new user workflows and resulting in a 20% increase in user engagement.
- Integrated **Redis** caching, cutting latency from 200ms to 90ms and boosting API response time by 55%.

Software Engineer Intern — May 2023 - Dec 2023
Addgene — *Boston, MA*

- Led the development of a notification **REST API** service that aggregates Webex and mail notifications. This service was leveraged by more than 10 services for their notification needs.
- Containerized microservices with **Docker** & **Kubernetes**, improving scalability and deployment efficiency.

Data Engineer — Aug 2021 - Jun 2022
Quantiphi — *Mumbai, India*

- Led the migration from **Elasticsearch** to **BigQuery**, reducing data storage costs by 30% and improving query performance by 40%, enabling faster insights for business-critical decisions.
- Designed and implemented an automated, scalable data pipeline using **Spark** and **Apache Airflow**, reducing data processing and ingestion time by 35% and increasing data handling capacity by 50%.

PROJECTS

Kitchen Chronicles. Built a full-stack web app using **React**, **Node.js**, **MongoDB**, and **REST APIs**, managing 100+ user requests per day and improving response time through optimized API endpoints. (Try it here)

E-Inventory Management System. Engineered an inventory management system on **AWS** using **SQL**, **Flask**, and **Python**, supporting real-time tracking, reducing errors and optimizing the supply chain process.

Automated Stock Trading Bot. Implemented an automated stock trading bot in **Python**, leveraging real-time data analysis to execute trades, achieving a 15% portfolio return over 6 months.

SKILLS

Programming Languages	Python, Java, JavaScript, TypeScript, Golang, C, C++, Scala
Cloud & DevOps	Docker, Kubernetes, Ansible, Terraform, AWS, GCP, CI/CD
Frameworks & Databases	Flask, Node.js, React, Express.js, Kafka, RabbitMQ, SQL, MongoDB