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 compliance monitoring applications using **Spring Boot** and **Java**, helping ensure adherence to financial regulations.
- Built data pipelines using **Kafka** to process compliance data from multiple sources into a centralized data lake.
- Designed **RESTful APIs** using **Spring Boot** to integrate with internal compliance systems, handling 10,000+ daily requests.
- Containerized applications using **Docker** and **Kubernetes**, improving deployment reliability and scaling.
- Created automated alerts for compliance violations using **Grafana** and **Prometheus**, reducing detection time for regulatory issues.

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

- Built three new user workflows using **Streamlit** and **Python** integrated with DataRobot's prediction models.
- Improved **React** components to meet accessibility standards, making the application more user-friendly for people with disabilities.
- Built reusable **TypeScript** components for the analytics dashboard, reducing code duplication by 40% and improving maintainability.

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

- Implemented **Redis** caching to reduce API response time from 200ms to 90ms.
- Implemented API authentication and rate limiting using **JWT** tokens, enhancing platform security and preventing service abuse.
- Added real-time shipment tracking by integrating external APIs, improving tracking accuracy by 30%.

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

- Migrated data from **Elasticsearch** to **BigQuery**, reducing storage costs by 30% and speeding up queries.
- Built automated data pipelines using **Spark** and **Apache** Airflow, reducing data processing time by 35%.

PROJECTS

Kitchen Chronicles. Built a web application using **React**, **Node.js**, and **MongoDB** that handles 100+ daily user requests. Optimized API endpoints to improve response times and user experience. (Try it here)

E-Inventory Management System. Created an inventory tracking system using **AWS**, **SQL**, **Flask**, and **Python**. Implemented features for real-time inventory updates and supply chain optimization.

SKILLS

Programming Languages	Python, Java, JavaScript, TypeScript, C/C++, SQL, MongoDB
Cloud & DevOps	Docker, Kubernetes, Ansible, Terraform, AWS, GCP, CI/CD
Frameworks & Databases	Flask, Node, React, Express, Springboot, Kafka, JUnit, Swagger