

AMOD DHOPAVKAR

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EDUCATION

Master of Computer Science, Northeastern University Aug 2022 - Dec 2024
Relevant Coursework: Cloud Computing, Software Design 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

- Engineered full-stack applications using **Streamlit**, **Python** and **DataRobot's** predictive models, resulting in 3 new user workflows.
- Enhanced **React** components for better accessibility, achieving 100% WCAG compliance, and improving user experience, particularly for users with disabilities, by refining key UI elements.

Software Engineer May 2023 - Dec 2023
Addgene Boston, MA

- Integrated **Redis** as a distributed caching layer, reducing latency from 200ms to 90ms, thereby enhancing API response time by 55%
- Led the integration of third-party **REST APIs** for real-time shipment tracking, expanding application functionality and improving data accuracy by 30%.
- 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.

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