

# AMOD DHOPAVKAR

+1(617) 309-0892 ♦ [amoddhopavkar2@gmail.com](mailto:amoddhopavkar2@gmail.com) ♦ [linkedin.com/in/amoddho2/](https://www.linkedin.com/in/amoddho2/) ♦ [amoddhopavkar.com/](https://amoddhopavkar.com/)

## EDUCATION

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**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

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**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

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**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

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