

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

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

EXPERIENCE

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%.
- Led the full software development lifecycle (SDLC) using **Agile** methodologies, to deliver a complex web application within an aggressive 2-month timeline, overcoming significant technical challenges.

Software Engineer May 2023 - Dec 2023
Addgene *Watertown, 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.
- Rearchitected 5+ **monolithic Python apps** to **microservices architecture**, reducing time to production and improving scalability and maintainability.
- 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%.

Software Engineer Intern Aug 2020 - Mar 2021
Veritas Technologies *Pune, India*

- Developed packet-tracing utility for **Replicated Block Device**, reducing troubleshooting time for outages.
- Utilized **Machine Learning** algorithms to predict and prevent potential system downtimes, preemptively reducing outages and improving overall system reliability.

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.