Amod Dhopavkar

617-309-0892 | dhopavkar.am@northeastern.edu | linkedin.com/amoddho2 | amoddhopavkar.me

EDUCATION

Northeastern University, Khoury College, Boston, MA   Sep 2022 - Aug 2024
Master of Science in Computer Science   GPA: 3.8/4
Coursework: Algorithms, Large Scale Parallel Data Processing, Software Design Patterns, Cloud Computing.
- Graduate Teaching Assistant, Programming in C++

University of Pune, India   Aug 2017 - May 2021
Bachelor of Engineering in Information Technology   GPA: 3.8/4
Coursework: Data Structures, Databases, Design & Analysis of Algorithms, Software Engineering, OS, Networks.
- Vice President, Institute of Electrical & Electronics Engineers (IEEE)

SKILLS

Languages	Python, Java, C++, JavaScript, SQL (MySQL, PostgreSQL), NoSQL (MongoDB, Cassandra), Scala
Web Development	React.js, Node.js, Express.js, Flask, Django, REST APIs, GraphQL, Streamlit, Spring Boot, MVC
Data Engineering	MapReduce, Spark, Airflow, Kafka, ETL Pipelines, Data Modelling, Data Warehousing
Cloud & DevOps	AWS, GCP, Docker, Kubernetes, Ansible, Terraform, GitHub Actions, Jenkins

EXPERIENCE

Software Engineering Intern   May 2024 - Present
DataRobot Inc.   Boston, MA
- Developed and maintained Streamlit applications to enhance the user experience and functionality of DataRobot's Gen-AI platform, resulting in increased user engagement and satisfaction.
- Collaborated with cross-functional teams to design, implement, and optimize backend systems and APIs, improving overall system performance and scalability.

Software Engineer   May 2023 - Dec 2023
Addgene Inc.   Boston, MA
- Designed and implemented a Redis caching layer, reducing average API response time by 35%. Containerized and deployed the API using Docker and Kubernetes for streamlined deployment and scalability.
- Developed an ETL pipeline using AWS Lambda to transfer data from an on-prem database to BigQuery via S3, reducing processing time by 60%. Implemented CI/CD with GitHub Actions for easy deployment and monitoring.
- Implemented a scalable and reproducible bioinformatics pipeline using Nextflow, Docker, and AWS Batch, reducing processing time by 60% and enabling the analysis of large-scale genomic datasets.

Data Engineer   Aug 2021 - Jun 2022
Quantiphi Analytics   Mumbai, India
- Spearheaded the transition from Elasticsearch to BigQuery, slashing operational costs by 70% while boosting performance metrics by over 30%.
- Implemented a robust monitoring and alerting system using Prometheus and Grafana, enabling proactive issue detection and reducing mean time to resolution (MTTR) by 25%.
- Architected an ETL pipeline utilizing Google Cloud Platform, facilitating real-time data analytics using Looker and improving operational efficiency. Automated deployment and provisioning using Ansible and Terraform.
- Orchestrated complex data processing workflows using Apache Airflow, integrating Spark jobs for real-time data processing and analytics, enhancing efficiency and scalability.

Software Engineering Intern   Aug 2020 - Mar 2021
Veritas Technologies   Pune, India
- Enhanced Distributed Replicated Block Device (DRBD) kernel module to track data packets leading to a superior packet traceability. Designed CI/CD pipelines reducing deployment time by 40%.

PROJECTS

Money Magnet: Stock Portfolio Management
- Designed Java app following MVC pattern, integrating Alphavantage API for real-time stock data. Demonstrated proficiency in software design patterns.

Inventory Management System
- Built an E-Inventory Database Management System utilizing Amazon RDS, enabling efficient product management, order tracking, and reporting.

Kitchen Chronicles: Full-Stack Web App
- Developed a culinary recipes MERN stack web-app featuring React front-end and Node/Express RESTful APIs.