Amod Dhopavkar

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EDUCATION

Master of Science in Computer Science, Northeastern University — Sep 2022 - Dec 2024
Relevant Coursework: Software Design Patterns, Large Scale Data Processing, Software Engineering

Bachelor of Engineering in Information Technology, University of Pune — Aug 2017 - May 2021
Relevant Coursework: Cloud Computing, Networking, Operating Systems, Web Development, Databases

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, NoSQL

EXPERIENCE

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 and a 20% increase in user engagement within the first month.
- Optimized a key microservice reducing API response time by 25% through code refactoring and database query optimization, leading to enhanced user experience.
- 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 — Boston, MA

- Integrated Redis as a distributed caching layer, reducing latency from 200ms to 90ms, thereby enhancing API response time by 55% and improving system efficiency during peak traffic periods.
- Led the integration of third-party APIs for real-time shipment tracking, expanding application functionality and improving data accuracy by 30%.
- Enhanced React components for better accessibility, achieving 100% WCAG compliance, and improving user experience, particularly for users with disabilities, by refining key UI elements.

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.
- Engineered an ETL pipeline on Google Cloud Platform, facilitating seamless migration of 5TB+ data from on-premises to BigQuery, improving data accessibility and operational efficiency by 50%.
- 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 open-source packet-tracing utility for Distributed 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: Full-Stack Web App [Link]

- 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.

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.