Amod Dhopavkar

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Education

Northeastern University, Khoury College of Computer Sciences	Boston, MA
Master of Science in Computer Science – GPA: 3.9	Sep 2022 - Jun 2024
Pune University	Pune, India
Bachelor of Engineering in Information Technology – GPA: 3.8	Aug 2017 - May 2021

Skills

Languages: Python, Java, C, C++, JavaScript, MySQL, PostgreSQL, MongoDB, Cassandra, HTML/CSS, R
Web Development: React.js, Node.js, Express.js, Angular, Flask, Django, REST APIs, MVC, MVVM
Data Engineering: MapReduce, Spark, Airflow, Kafka, Scala, PySpark, ETL Pipelines
Cloud & DevOps: Amazon Web Services (AWS), Google Cloud Platform (GCP), Docker, Kubernetes, Jenkins, CI/CD

Experience

Software Engineer Intern, Backend — May 2023 - Dec 2023
Addgene — Watertown, MA

- Engineered scalable RESTful APIs with Flask and Docker, enhancing system efficiency and reducing bug rate by 20%. (Tech Stack: Docker, Flask, Python)
- Automated critical data processing tasks leveraging AWS Lambda, slashing processing time by 40%. (Tech Stack: AWS Lambda Functions, AWS S3, Python)
- Optimized Django models for data structures, improving data retrieval efficiency by 30% and boosting user satisfaction. (Tech Stack: Django, Python)

Data Engineer — Aug 2021 - Jun 2022
Quantiphi Analytics — Mumbai, India

- Spearheaded the transition from Elasticsearch transforms to BigQuery, slashing operational costs by 70% while boosting performance metrics by over 30%. (Tech Stack: Elasticsearch transforms, MySQL, BigQuery)
- Architected an ETL pipeline utilizing Google Cloud Platform services, facilitating real-time data analytics and significantly improving operational efficiency. (Tech Stack: Google Cloud Platform, Python, MySQL, Cloud Function)
- Designed CI/CD pipelines for data infrastructure using Jenkins, automating testing, building, and deployment processes, resulting in a 40% reduction in deployment time and increased system reliability. (Tech Stack: Jenkins)

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

- Enhanced kernel module of Distributed Replicated Block Device to track the data packets leading to a superior packet traceability. (Tech Stack: Kernel Programming, C, CScope)
- Implemented Binary Classifier on the data obtained to identify potential outages, decreasing active downtime by 36%. (Tech Stack: Binary Classifier, Machine Learning)

Graduate Teaching Assistant, Programming in C++ — Jan 2023 - Present
Northeastern University — Boston, MA

- Facilitated C++ programming workshops, enhancing student understanding and proficiency.
- Garnered a 95% approval rating from students through effective teaching methods and support.

Projects

Kitchen Chronicles: Full-Stack Web App

- Developed MERN stack application for culinary recipes, featuring React front-end with Hooks and Node/Express RESTful APIs. Utilized Redux.js for state management. (Tech Stack: React, Node.js, Express, Redux.js, JWT Authentication)

Inventory Management System

- Engineered an E-commerce Inventory Management System utilizing Amazon RDS, enabling efficient product management, order tracking, and reporting. (Tech Stack: Node.js, Express.js, React.js, Amazon RDS - PostgreSQL)

MoneyMagnet: Stock Portfolio Management

- Designed Java desktop app following MVC pattern, integrating Alphavantage API for real-time stock data. Demonstrated proficiency in software design patterns. (Tech Stack: Java, MVC, Alphavantage API)

Leadership Experience

Vice President Finance, Institute of Electrical & Electronics Engineers (IEEE)

- Spearheaded the IEEE chapter's financial strategy, ensuring a 20% growth in financial stability through meticulous budget management and tech-enhanced record-keeping, in collaboration with team members.