Amod Dhopavkar

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EDUCATION

Northeastern University, Khoury College of Computer Sciences, Boston, MA   **Sep 2022 - Jun 2024**
Master of Science in Computer Science   GPA: 3.9/4
Coursework: Algorithms, Parallel Data Processing, Software Design Patterns, Cloud Computing, Web Development, Databases

Savitribai Phule Pune University, Pune Institute of Computer Technology, Pune, India   **Aug 2017 - May 2021**
Bachelor of Engineering in Information Technology   GPA: 9.2/10
Coursework: Data Structures, Databases, Design & Analysis of Algorithms, Software Engineering & Testing, OS, Computer Networks

SKILLS

- **Languages**   Python, Java, C, C++, JavaScript, Go, MySQL, PostgreSQL, MongoDB, Cassandra, Scala, HTML/CSS, R
- **Web Development**   React.js, Node.js, Express.js, Angular, Flask, Django, REST APIs, GraphQL, MVC, MVVM
- **Cloud & DevOps**   AWS, GCP, Docker, Kubernetes, Ansible, Terraform, CI/CD, GitHub Actions, Jenkins, Prometheus, RabbitMQ

EXPERIENCE

Addgene Inc., Watertown, MA | Software Engineer Intern, Backend   **May 2023 - Dec 2023**
- Collaborated with cross-functional teams to design and implement a caching layer using Redis, reducing average API response time by 35% and enhancing system scalability. (Tech Stack: Redis, Caching, System Design, Scalability)
- Engineered scalable RESTful APIs with Flask and Docker, enhancing system efficiency and reducing bug rate by 20%. (Tech Stack: Docker, Containerization, Flask, Python, REST APIs, Swagger)
- Automated critical ETL tasks leveraging AWS Lambda, slashing processing time by 40%. (Tech Stack: AWS - Lambda, S3, ETL)
- Developed and maintained robust CI/CD pipelines using GitHub Actions, ensuring seamless deployment and reducing manual intervention by 80%. (Tech Stack: CI/CD, GitHub Actions, DevOps)

Quantiphi Analytics, Mumbai, India | Data Engineer   **Aug 2021 - Jun 2022**
- Spearheaded the transition from Elasticsearch 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)
- Automated VM provisioning and data pipeline deployment using Terraform and Ansible, reducing manual effort and enhancing consistency. (Tech Stack: Terraform, Ansible, IaC - Infrastructure as code)
- Implemented a robust monitoring and alerting system using Prometheus and Grafana, enabling proactive issue detection and reducing mean time to resolution (MTTR) by 25%. (Tech Stack: Prometheus, Grafana, Monitoring, Alerting)

Veritas Technologies, Pune, India | Software Engineer Intern, Systems   **Aug 2020 - Mar 2021**
- 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)
- Designed CI/CD pipelines using Jenkins, Prometheus, and TeamCity, reducing deployment time by 40% and enhancing system reliability. (Tech Stack: Jenkins, TeamCity, Prometheus)
- Implemented Binary Classifier on the data obtained to identify potential outages, decreasing active downtime. (Tech Stack: Binary Classifier, Machine Learning)

Northeastern University, Boston, MA | Graduate Teaching Assistant, Programming in C++   **Jan 2023 - Present**
- Developed and delivered workshops demonstrating expertise in C++, resulting in a 95% student approval rating.

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: MongoDB, React, Node, Express, Redux Hooks, REST APIs)

Inventory Management System
- Built 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)

Money Magnet: 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, API Integration, Postman, JUnit Testing)

LEADERSHIP EXPERIENCE

Vice President Finance | Institute of Electrical & Electronics Engineers (IEEE)   **Dec 2018 - Dec 2019**
- Spearheaded the IEEE chapter's financial strategy, ensuring a 20% growth in financial stability through enhanced record-keeping.