

AMOD DHOPAVKAR

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Education

Northeastern University

Master of Science in Computer Science

Sep 2022 – Dec 2024

Boston, MA

University of Pune

Bachelor of Science in Computer Science

Aug 2017 – May 2021

Pune, India

Experience

Goldman Sachs

Software Engineer

Dec 2024 – Present

Salt Lake City, UT

- Developing a WebID project to transition authentication mechanisms from cookies, enhancing account security and user privacy.
- Engineered a compliance monitoring application using Spring Boot and Java to automate adherence to financial regulations, improving risk mitigation.
- Designed and implemented scalable RESTful APIs with Spring Boot, integrating multiple internal systems while handling over 10,000 requests per day.
- Containerized microservices with Docker and orchestrated deployments on Kubernetes, improving system reliability and simplifying scaling operations.
- Collaborated with security teams to identify and resolve vulnerabilities, strengthening application defenses against emerging threats.

DataRobot

Software Engineer Intern

May 2024 – Sep 2024

Boston, MA

- Built three user-facing workflows using Streamlit and Python, enabling seamless interaction with DataRobot's core prediction models.
- Refactored legacy React components to be WCAG 2.1 AA compliant, making the application accessible to a wider range of users.
- Engineered reusable TypeScript components for a core analytics dashboard, reducing code duplication by 40% and accelerating feature development.
- Improved the performance of data-intensive UI components by implementing efficient state management and rendering techniques in React.

Addgene

Software Engineer

May 2023 – Dec 2023

Boston, MA

- Implemented Redis caching for high-traffic API endpoints, reducing average response latency from 200ms to 90ms.
- Developed a robust API authentication and rate-limiting system using JWT, enhancing platform security and preventing service abuse.
- Integrated third-party logistics APIs to introduce real-time shipment tracking, improving order visibility and tracking accuracy by 30%.
- Wrote comprehensive unit and integration tests for critical backend services, increasing code coverage and preventing production regressions.

Quantiphi

Software Engineer

Aug 2021 – Jun 2022

Mumbai, India

- Led the migration of a large-scale data warehouse from Elasticsearch to Google BigQuery, reducing monthly storage costs by 30%.
- Built and maintained automated data pipelines using Apache Airflow and Spark, decreasing data processing times by 35%.
- Developed custom data validation jobs within Airflow DAGs to ensure high data quality and reliability across all analytics platforms.

Veritas Technologies

Software Engineer Intern

Aug 2020 – Mar 2021

Pune, India

- Architected and built a C++ Proof-of-Concept to integrate a packet tracing utility into the DRBD open-source kernel module.
- Validated the PoC's feasibility for enterprise-level disaster recovery, demonstrating its potential for ensuring continuous data availability.
- Analyzed kernel-level I/O performance to identify bottlenecks and propose optimizations for the DRBD replication protocol.

Projects

devcv.xyz – Resume Builder | React, TypeScript, Golang, Material-UI, Latex

May 2025

- Engineered a full-stack resume builder with React and TypeScript for the frontend, and Golang for backend APIs, featuring a live-preview editor for creating resumes with Latex.
- Designed a clean, responsive UI using Material-UI and architected RESTful backend APIs in Golang for template processing and user-data management.
- Implemented real-time document saving and PDF export via Go services, providing a seamless, Google-Docs-like user experience.

LeetCode PowerUp – Chrome Extension | JavaScript, Chrome Extension APIs, YouTube Data API, chrome.storage

Dec 2024

- Injects a sidebar into LeetCode problem pages displaying the top 3-5 solution videos fetched via the YouTube Data API.
- Provides a per-problem scratchpad for user notes, persisted in `chrome.storage` for seamless access across sessions.
- Implements asynchronous messaging between content and background scripts: content scripts request video data and storage operations, background scripts perform YouTube Data API calls and persist notes, all managed with Promise-based flows for a non-blocking UI.

Technical Skills

Languages & Frameworks: Java, Spring Boot, Python, JavaScript, TypeScript, C/C++, SQL, React, Node, Flask

Cloud, DevOps & Data: AWS, GCP, Docker, Kubernetes, Terraform, Ansible, CI/CD, Airflow, Kafka, MongoDB, Elasticsearch, BigQuery, Redis

Tools & Concepts: RESTful APIs, Microservices, Distributed Systems, Grafana, Prometheus, Git