

# Anirudh Maiya

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[github.com/AnirudhMaiya](https://github.com/AnirudhMaiya)

## EDUCATION

University of Colorado Boulder  
Master of Science in Computer Science

May 2025  
Boulder, CO

PES University  
Bachelor of Technology in Computer Science

May 2021  
Bangalore, India

## EXPERIENCE

### Software Engineer, Commvault | Bangalore, India

January 2022 - August 2023

- Elevated success rate for remote troubleshooting service from 85% to 98% by improving software robustness, implementing error handling for PsExec operations, and rectifying issues related to software release schedules
- Opted for an in-house Python codebase over Airflow and Luigi, effectively migrating and refactoring remote troubleshooting service with over 35,000 lines, upgrading it from Python 2.7 to Python 3.9
- Implemented object-oriented programming principles, integrated dependency management, log scrubbing, generic retry APIs, and incorporated keys to streamline code adaptability for both production and test environments
- Revamped Commvault Plugin for ServiceNow to comply with ServiceNow Store regulations. Served as the subject-matter expert for integrating Commvault workflow with ServiceNow endpoints
- Led migration of libraries for cloud services Java project, including the upgrade of jQuery from 1.9.1 to 3.6.3. Additionally, executed Tomcat migration that involved manual migration of Tomcat and its dependent JAR files
- Managed Commvault's translation editor service, actively addressing and resolving issues raised by translators to enhance their productivity and improve overall user experience

### Associate Software Engineer, Commvault | Bangalore, India

July 2021 - December 2022

- Designed and developed "Decompress-as-a-service" in the cloud ecosystem. Designed schema, authored leader-worker architecture and implemented aggregation, decompression and notification functionalities. Enabled 1000+ engineers to seamlessly process more than 30 terabytes of customer logs on a daily basis
- Implemented on-the-fly maintenance and feature release upgrades for remote troubleshooting service, resulting in annual time savings of approximately 300 hours for the Cloud-Services Team
- Managed and took ownership of reports and workflows for the Commvault Cloud platform, serving over 20,000 customers. Decoupled customer-facing reports that were reliant on licensing codes, mitigating potential vulnerabilities

### Development Intern, Commvault | Bangalore, India

January 2021 - June 2021

- Optimized dependency management for cloud services project by migrating from Apache Ant to Gradle, slashing build time from 3 minutes to 30 seconds. This transition empowered Commvault to promptly address the Log4j vulnerability
- Designed and automated test cases to ensure robustness of Commvault Cloud Disaster Recovery solution

### Project Intern, Indian Space Research Organization | Bangalore, India

October 2019 - April 2020

- Tackled the task of estimating coconut farm area using multi-spectral data. Introduced a novel framework that facilitates contradictory feature learning yielding an accuracy of 89% . Presented the results at [IEEE IGARSS - 2021](#)

## PROJECTS

- **RideShare Application:** Backend for ride-sharing application, enabling users to create, join and delete rides. Utilized RabbitMQ for message queuing, orchestrating worker containers, implementing eventual consistency for database updates, and ensured fault tolerance with ZooKeeper | [Project Link](#)
- **Tom Optimizer:** A novel variant of Adam, that accounts for gradient trends, outperforming traditional optimizers in accuracy and convergence speed. Achieved an average improvement of 4.6% | [Project Link](#)
- **Messup:** A novel regularization technique that encounters samples through exponential smoothing. Reduced generalization error by 1.6 % when applied to CIFAR-10 dataset with ResNet | [Project Link](#)
- **Cloud Image Prior:** Devised a framework that removes cloud cover from Sentinel-2 remote-sensing imagery under the assumptions of Deep Image Prior Algorithm. Boosted average peak signal-to-noise ratio by 64% | [Project Link](#)

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, JavaScript, SQL

**Web Development:** HTML, CSS, PHP, ReactJS, Flask, Node.js, REST API

**Technologies:** Microsoft SQL Server, PostgreSQL, MongoDB, RabbitMQ, Gradle, Apache Ant, Apache Spark, Git, ZooKeeper

**Machine Learning libraries:** PyTorch, TensorFlow, Keras, scikit-learn

**Cloud & Others:** Azure ([certified](#)), AWS EC2, AWS DynamoDB, Docker, Data Structures, Algorithms, Operating System