Anirudh Maiya

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EDUCATION

- **University of Colorado Boulder** — Boulder, CO
  Master of Science in Computer Science — *August 2023 – May 2025*
- **PES University** — Bangalore, India
  Bachelor of Technology in Computer Science and Engineering; GPA: 8.81/10.0 — *August 2017 – May 2021*

TECHNICAL SKILLS

- **Languages**: Python, Java, JavaScript, SQL, HTML, CSS, PHP
- **Technologies**: Microsoft SQL Server, PostgreSQL, SQLite, MongoDB, Flask, ReactJS, PyTorch, TensorFlow, Keras, scikit-learn, RabbitMQ, Gradle, Apache Ant, Apache Spark, GIT
- **Cloud**: Azure (**certified**), AWS, Docker

EXPERIENCE

- **Commvault** — Bangalore, India
  Software Engineer — *January 2022 - August 2023*
  - Elevated **success rate** for Commvault Cloud's Remote Troubleshooting from **85%** to **98%**. Tailored a Commvault Report to monitor error rates, expediting prioritization of bugs and defects linked to Remote Troubleshooting
  - **Migrated and refactored** a legacy codebase exceeding **35,000 lines** for Remote Troubleshooting, upgrading it from **Python 2.7 to Python 3.9**. Introduced dependency management, log scrubbing, generic retry APIs, and incorporated keys to streamline code adaptability for both production and test environments

  Associate Software Engineer — *July 2021 - December 2021*
  - Single-handedly designed and developed **"Decompress-as-a-Service"** within the Commvault Cloud ecosystem. Orchestrated aggregation, decompression and notification functionalities. The service empowers **1000+ Commvault engineers** to efficiently extract and process over **30 terabytes of Customer Logs everyday**
  - Implemented on-the-fly Maintenance Release Upgrades for Remote Troubleshooting, resulting in annual time savings of approximately **300 hours** for the Cloud-Services Team

  Intern — *January 2021 - June 2021*
  - Streamlined **dependency management** for the Cloud-Services project by migrating from **Apache Ant to Gradle**, resulting in reduction of build time from **3 minutes to 30 seconds**
  - Designed and **automated test cases** to ensure robustness of Commvault Cloud Disaster Recovery solution

- **Indian Space Research Organisation** — Bangalore, India
  Project Intern - National Remote Sensing Centre — *October 2019 – April 2020*
  - Developed a **novel deep learning model, Siamese U-Net**, that addresses the challenge of estimating coconut farm area from **multi-spectral data**. Delivered a **presentation** on the findings at **IEEE IGARSS - 2021**

PROJECTS

- **Rethinking SWATS Optimizer**: An **enhanced** version of SWATS optimizer which outperforms vanilla SWATS by **1.3% for ResNet-18** and **1.4% for DenseNet-121** (Project Link)
- **Symm-PPO**: A **variant** of OpenAI's Proximal Policy Optimization (PPO) that inculcates the analogy of PPO for the entropy term. Median rewards from Symm-PPO **outperform** vanilla PPO (Project Link)
- **MusePlay**: A music streaming website similar to **Spotify**, with user registration, playlist creation, music search, personalized recommendations, and real-time local and global charts (Project Link)

PUBLICATIONS

- Maiya, A., Shylaja, S.S. (2022). **"Cloud Image Prior: Single Image Cloud Removal"**. International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, vol 1387. Springer
- Maiya, A., Sricharan, I., Pandey, A., Ks, Srinivas. (2021). **"Tom: Leveraging trend of the observed gradients for faster convergence"**, DOI - 10.48550/arXiv.2109.03820

HONORS AND AWARDS

- **Best Paper Award** for Cloud Image Prior: Single Image Cloud Removal at Springer ICICC - 2021
- Recipient of the Professor MRD Scholarship, awarded for ranking in the **top 20%** of the Computer Science Department during the **6th semester**, providing a **30% tuition fee waiver**