Tejas Shimpi

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EDUCATION

Georgia Institute of Technology   **Atlanta, Georgia**
Master's in Computer Science, specializing in **Computing Systems***,* **GPA: 4.0**   *Aug. 2023 - May 2025 Exp.*
– Recipient of the **MS GTA Fellowship** (Offered to 7 of 350+ MSCS students)
– **Teaching Assistant**, Advanced Operating Systems
– *Selected courses:* Advanced Operating Systems, Networks, Computer Architecture, High Performance Computing

Indian Institute of Technology (BHU), Varanasi   **Varanasi, India**
Dual Degree (B.Tech + M.Tech), Computer Science and Engineering, **GPA: 9.20/10**   *Jul 2016 - May. 2021*
– *Selected courses:* Distributed Computing, Database Management Systems, Machine Learning, NLP

PROFESSIONAL EXPERIENCE

Cohesity, Inc.   **Bangalore, India**
Backend Engineer (IC3)   *Jul. 2021 - Jun. 2023*
Drove projects part of the data security and management suite for Cohesity clusters and cluster managers
– **Cluster Management:** Led microservice development for monitoring cluster health and upgrade scheduling
– **Data Vault:** Built a data classification service to identify sensitive data leaks on disks using BigID scans
– **Backup Verification:** Improved detection of corrupt backups by identifying issues in the backup MBR/GPT
– **Entity Risk Score:** Found suspicious users by formulating risk scores based on actions and access patterns
– **Security Vulnerabilities:** Led an R&D wide effort to fix 300+ critical vulnerabilities reported by Twistlock
– **Release Portal:** Automated controlled releases and LTS release whitelisting across eligible clusters

INTERNSHIPS

Cohesity, Inc.   **San Jose, California**
R&D Intern, Distributed File System   *May. 2024 - Aug. 2024*
– Reformed crash investigation and reduced disk usage by 100x for all R&D by adding breakpad minidumps
– Built an Angular UI and backend RPCs across services to visualize customers' Active Directory topology

Adobe Inc.   **Noida, India**
Research Intern, Media Data Science and Research Labs — **Publication in NeurIPS'21**   *Apr. 2020 - Jul. 2021*
– Introduced class and saliency bias that most SOTA models for One Shot Segmentation (OSS) suffered from
– Created a tiered OSS dataset (TOSS), that helps researchers build unbiased models (cited in ICLR 2024)

Visa Inc.   **Bangalore, India**
Software Development Intern, Data Platform   *Apr. 2019 - Jul. 2019*
– Designed and built an integration test suite for Visa's transaction authorization Spark ETL data pipeline

PUBLICATIONS

What Ails One-Shot Image Segmentation: A Data Perspective, Mayur Hemani*, Abhinav Patel*, **Tejas Shimpi***, Anirudha Ramesh*, Balaji Krishnamurthy, in **NeurIPS (Datasets and Benchmarks Track)**, 2021

KEY PROJECTS

Improving RAG Query Retrieval from Vector Databases (Github)**,** Spring 2024
– Beat state of the art embedding models with novel inference techniques on BEIR passage ranking datasets

Improving Large Image Preprocesssing Performance (Github)**,** Fall 2024
– Improved performance for large images by using containers and RPC to parallelize PyTorch preprocessing

TECHNICAL SKILLS

Programming Languages: C++, Golang, Python, Scala, JavaScript, TypeScript, MySQL
Technologies: Kubernetes, Docker, gRPC, Angular, React, MongoDB, Postgres, PyTorch, MPI, Kafka, Spark

LEADERSHIP ROLES AND INTERESTS

– Part of IIT(BHU)'s Indian classical choir and rock band that won inter collegiate competitions across India
– Facilitated career fairs at IIT(BHU) for over 300+ recruiters as a Training and Placement Representative