HEMANG DASH

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Education

Georgia Institute of Technology, Atlanta, GA, U.S.A.

- **M.Sc.** in Computer Science (Computing Systems) *Expected Graduation: May 2024*
- **B.Sc.** in Computer Science (Threads: Systems & Architecture, Intelligence) | **GPA: 3.88** | *May 2023*

Certifications

- **AWS Certified Developer – Associate** | Amazon Web Services (AWS) | *Aug 2023*

Industry Experience

Meta, *Software Engineer Intern* *May 2022 – Aug 2022*

- Revamped Meta Business Suite's Brand Safety Hub Overview using React, Hack, GraphQL, and Relay to ensure brand safety on all Meta platforms while simplifying ad placement.
- Spearheaded the adoption of GraphQL over GraphAPI, resulting in a 15% improvement in load times, increased flexibility in data retrieval, and improved code quality.
- Recognized as the fifth highest contributor in Facebook Integrity's code hub.

NCR Corporation, *Software Engineer Intern* *May 2021 – Aug 2021*

- Designed and implemented a REST API an Angular solution in .NET Core that eliminated manual customer information transformation, resulting in a 10x faster onboarding process.
- Developed an Angular-powered solution in .NET Core to enable NCR Marketplace's sites to be validated against various tax services, enhancing the user experience.
- Led refinement sessions and introduced gamification for intern engineers, enhancing sprint productivity by 25%.

Academic and Research Experience

Georgia Tech, *Graduate Teaching Assistant (Advanced Operating Systems)* *Aug 2023 – Present*

- Designed course materials to assess student's understanding of graduate-level topics in OS, distributed and parallel systems.
- Held weekly office hours to help students overcome conceptual blocks, debug code, and learn new course material.

Prog. Languages & SWE Group, Georgia Tech, *Research Assistant* *May 2023 – Present*

- Engineered and established a robust infrastructure to systematically identify and diagnose bugs in LLDB's behavioral performance across diverse compilation optimization levels.

EPL Surveillance Group, Georgia Tech, *Research Assistant* *Jan 2022 – May 2022*

- Analyzed workload to test enabling a FaaS platform to operate efficiently over a geo-distributed continuum of edge clusters, to serve requests and avoid any one edge-cluster from violating latency requirements.
- Utilized a SUMO script to generate random activity of vehicles in a city over a period of 36 hours and assigned each vehicle to an edge site closest to it using the Euclidean distance heuristic.

Georgia Tech, *Undergraduate Teaching Assistant (Computer Systems and Networks)* *Aug 2021 – Dec 2022*

Projects

Community Willingness and Capability Score (CWCS), *iParametrics, LLC* *Aug 2022 – May 2023*

- Web app built using React, Jupyter, Azure SQL and Python Flask that shows the CWCS of different communities in the US, computed using an ML algorithm to determine strategic and equitable investments in disaster mitigation efforts.

Store with Client and Vendors using gRPC *Oct 2022 - Nov 2022*

- Distributed multi-threaded Store service in C++ that uses asynchronous gRPC communication to query prices of Vendor (Server) products based on Client requests.

vCPU Scheduler and Memory Coordinator *Sep 2022*

- Scheduler built in C that tracks virtual CPU utilization of VMs and load balances them across physical CPUs.
- Memory coordinator built in C that tracks each guest machine's memory utilization and decides how much extra free memory should be allocated to each guest machine using the balloon driver.

NCAA Basketball Ranking *Feb 2022 - Apr 2022*

- Model in Jupyter that predicts the top 10 teams over multiple seasons of NCAA Basketball using ML models and algorithms.

Extra-Curriculars

India Club at Georgia Tech, *President* *Apr 2022 – Apr 2023*

- Managed the largest student-run organization at Georgia Tech by leading a board of over 70 members.
- Corresponded with University Administration and the Student Government Association for increasing outreach, maximizing the number of events, and serving the needs of thousands of people.

Skills

Computer Languages: Java, Python, C, C++, JavaScript, Hack, GraphQL, SQL, Assembly, HTML5, CSS, VHDL
Frameworks/Platforms: AWS Lambda, DynamoDB, Amazon EC2, Amazon S3, Azure SQL, Docker (Containers), React, Python Flask, GitHub, Angular, .NET Core, Flutter, Firebase, Altera Quartus, Microsoft Office, LibreOffice, Android Studio, Jupyter