

Education

Georgia Tech, Atlanta, GA

Master's of Science, Computer Science

Jan~2025-Dec~2027

Machine Learning

Cornell University, Ithaca, NY Bachelor's of Science, Computer Science

 $\mathbf{Aug} \,\, \mathbf{2020} - \mathbf{May} \,\, \mathbf{2024}$

30 Graduate Credits

Minor, Operations Research Information Engineering

Deans List: FA 2022, FA 2023, SP 2024

Relevant Coursework: Applied High-Performance and Parallel Computing \cdot Distributed Computing \cdot Cloud Computing \cdot Systems Programming \cdot Info Networks \cdot Databases \cdot Operating Systems \cdot Software Testing \cdot AI

Technical Skills

Languages: Java \cdot C++ \cdot Python \cdot SQL \cdot Bash \cdot C \cdot Rust

 $\textbf{Software \& Tools:} \ \, \textbf{Cloud Platforms} \cdot \textbf{Microservices} \cdot \textbf{REST} \cdot \textbf{Databases} \cdot \textbf{Containerization} \cdot \textbf{Container Orchestration} \cdot \textbf{Container Orche$

 $CI/CD \cdot Source\ Control \cdot Dependency\ Managers \cdot Build\ Systems \cdot Unit\ Testing \cdot Python\ Data\ Analytics \cdot BI$

Relevant Work Experience

Oracle June 2024 – Present

Software Developer I | C, Java, PL/SQL, OracleDB, Raft

Redwood City, CA

• Adding functionality to the Globally Distributed Database on the Shard Native Replication team · Writing Distributed Systems code in C, Java, and PL/SQL · Unit-Testing large-scale software · Utilizing Raft for consensus.

Gecko Robotics May 2023 – Aug 2023

Software Engineer Intern | C++, Python, CMake, C, Google Cloud, CI/CD

Pittsburgh, PA

• Worked on Robot Controls team · Revamped Robot & Data Acquisition emulators · Implemented new communications protocol · Wrote code for an asynchronous distributed system · Client/Server TCP networking · Replaced Visual Studio build-system with **CMake** · Added emulator support for calibratable data · Integrated **Github Actions** and **Poetry**.

CMU-Software Engineering Institute

May 2022 - May 2023

DevOps Engineer Intern | Python, Rust, Bash, Neo4j, Docker, Kubernetes, CI/CD

Pittsburgh, PA

• Updated and created **Gitlab CI** pipelines · Developed **Python**, **Rust**, and **Bash** code · Created **REST API** data visualizations · Used **ArgoCD** to deploy **AWS EKS** cluster · Improved efficiency of the company by using **Python**, **Neo4j**, **NeoDash**, and the PageRank algorithm to create metrics / long-term documentation.

Cornell University Aug 2022 – May 2024

Teaching Assistant & Head Proctor | Java, Python, SQL

Ithaca, NY

• Received the Course Staff Exceptional Service Award and was nominated twice · Created and led review sessions for hundreds of students · Taught Databases, Object Oriented Programming, and Physics Lab · Held class sections weekly.

Research

ADOPT: Adaptively Optimizing Attribute Orders | Java, AWS | Github | VLDB

Jan 2022 – May 2024

• Paper accepted and presented at VLDB 2023 · Worked on transforming the query engine into a distributed query engine · Created dynamic data visualizations for the ADOPT query engine using Java, JavaFX, and GraphStream.

Projects

Distributed Unit Testing (SPEED) | Masters Project | Java, Cloud | Github | BOOM

Aug 2023 - May 2024

• 1 of 44 projects selected for BOOM 2024. My team and I created a Scalable Platform for Efficient Execution of Distributed testing. The fault-tolerant system contains a leader node that orchestrates worker nodes that run JUnit tests on Java code. The worker nodes send test results to the controller. Test results are shown in the frontend.

Sharded Key Value Store (KVS) | Distributed Computing | Java, Paxos, 2PC | Github Jan 2023 - May 2023

• My partner and I made a sharded transactional KVS that uses **Paxos** for replication and **2PC** for multi-key updates. We implemented an Exactly-once RPC protocol on an asynchronous network, a primary-backup protocol, Paxos, and 2PC.

Cornell Meetup | Cloud Computing | Azure, CosmosDB, Python, WebDev | Github | BOOM Aug 2022 - Dec 2022

• 1 of 32 projects selected for BOOM 2023. My partner and I created a social media web app that allows users to create groups, chat with friends, and see where their friends are when on campus. Accounts details were obfuscated and salted.

Organizations

Engineering Entertainment Design Club | Lead Programmer & Secretary | Club

Aug 2022 - May 2024

• Created entertainment robots · Worked on our website · Led projects and mentored all software teams, over 20 mentees.

Cornell Tradition Fellowship | Fellow | Fellowship

 $\mathbf{Aug}\ \mathbf{2020} - \mathbf{May}\ \mathbf{2024}$

• Contains < 4% of all students · Keep good grades · Work and volunteer during the school year · Do 100+ hours of each.