Calen Robinette

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SUMMARY

Meticulous, driven graduate student with a strong background in mathematics entering the tech industry. Seeking to leverage teaching assistant experience, analytical skills, and coding skills as a Software Engineer.

EDUCATION

Online Masters of Science in Computer Science

Georgia Institute of Technology • Atlanta, GA • Expected Graduation: June 2021 • GPA: 3.25
• Student Advisory Committee member
• Current Course: Machine Learning for Trading

Bachelors of Science in Mathematics

Portland State University • Portland, OR • 2017 • GPA: 3.31

COURSEWORK

Graduate Operating Systems (CS 6200)

Computer Science • C/C++/Vagrant
Completed three projects over the span of four months to build upon the concepts of inter-process communications, distributed file systems, multi-threading, and gRPC protocols.

High-Performance Computer Architecture (CS 6290)

Computer Science • C++/SESC Emulator
Through the use of the SESC Emulator, ran multiple experiments to showcase the performance metrics of modern processors, caches, and instruction pipelines.

PROJECTS

Simplified Distributed File System

• Designed and created a distributed file system using gRPC and Protocol Buffers to implement several file transfer protocols.
• Utilized these file transfer protocols to incorporate a weakly consistent synchronization system.
• Ensured that the synchronization system between multiple clients and single server updated asynchronously with client commands.

Lab on Performance of Multi-Core Processors

• Measured the performance of multi-core processors running multiple threads, looking at parallel speedup and efficiency
• Through adding code to the SESC Emulator, measured the cache miss behavior and performance in this multi-core environment

SKILLS

Languages: C/C++, Java, Python

Technologies: Git/Github, Linux (Debian/Arch)

EXPERIENCE

Teaching Assistant

High-Performance Computer Architecture **June 2020 - Present, Remote**
• Working with a team of 4 TAs, aided over 300 students by answering questions, and providing feedback in a timely manor via the Piazza platform.
• Created grading tools using Python that will be used by future TAs to automate tasks, increase efficiency, and assist in detecting plagurism

Intern

Citrine Informatics **October 2017 - June 2018, Remote**
• Created a command-line tool using Python to automate the downloading of articles from multiple publication sites, checking for the correct API key.
• Utilized Tabula to extract data from 27 research papers, generating thousands of data points to aid in building a library of materials data.
• Educated on the methods Citrine uses to create predictive models using collected data.