


Calen Robinette

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EDUCATION

Online Masters of Science in Computer Science

Georgia Institute of Technology • Atlanta, GA • 2021

- Student Advisory Committee member
- Relevant Coursework: High-Performance Computing, Distributed Computing, Graduate Algorithms, Graduate Operating Systems

Bachelors of Science in Mathematics

Portland State University • Portland, OR • 2017

EXPERIENCE

Teaching Assistant

Georgia Institute of Technology

June 2020 - May 2021

- Mentored more than 300 students each term in collaboration with 4 other TAs, by answering questions, and providing feedback in a timely manor via the Piazza platform.
- Reduced average project grading time by over 20% by creating a suite of grading tools in Python that will be used by future TAs.
- Acted as a mentor for my cohort, assisting with code review in C++, and establishing a respectful learning environment.

Intern

Citrine Informatics

October 2017 - June 2018

- Automated the downloading of articles from multiple publication sites by building command-line tool with Python.
- Extracted data from 27 research papers using Tabula, generating thousands of data points to aid in building a library of materials data for use in training machine learning models.

PROJECTS

Simplified Distributed File System

- Designed and created a distributed file system using gRPC and Protocol Buffers to implement several file transfer protocols, such as: Store, Fetch and Delete.
- Utilized these file transfer protocols to incorporate a weakly consistent synchronization system in order to automatically update the server and all other clients upon any changes in files in any clients system.
- Ensured that the synchronization system between multiple clients and single server updated asynchronously to prevent any failures of the overall system.
- Analyzed how this system is horizontally scalable, and how this could further reduce failure rates.

Performance of Multi-Core Processors

- Measured the time and IPC performance increases of multi-core processors, using the results to analyze the performance of different cache management strategies.
- Ran multiple experiments on cache coherence to measure the different miss types for both read and write calls on a multi-threaded system.

SKILLS

Languages: C, C++, Python

Technologies: Git, Github, Linux (Debian/Arch), VMWare, gRPC, Pandas, OpenCV, CUDA, OpenMP