

Calen Robinette

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SUMMARY

Precise, 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.

EXPERIENCE

Teaching Assistant

High-Performance Computer Architecture

June 2020 - Present, Remote

- Work with a team of 4 TAs, aiding more than 300 students each term 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.
- Act as a mentor for my cohort, assisting with code review in C++, and providing a respectful learning environment.

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 interacting with a REST API.
- Utilized Tabula to extract data from 27 research papers, 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 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 an experiment on cache coherence to measure the different miss types for both read and write calls on a multi-threaded system.

EDUCATION

Online Masters of Science in Computer Science

Georgia Institute of Technology • Atlanta, GA • Expected Graduation: June 2021

- Student Advisory Committee member
- Current Courses: Computer Vision, High-Performance Computing

Bachelors of Science in Mathematics

Portland State University • Portland, OR • 2017

SKILLS

Languages: C/C++, Python

Technologies: Git/Github, Linux (Debian/Arch), OPTIONAL: OpenCV, Pandas, gRPC, REST API

OTHER

Founded and ran a pop-up restaurant, Margo PDX

Interned at Restaurant Noma