# Calen Robinette

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## 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

## EXPERIENCE

**Teaching Assistant**
**Georgia Institute of Technology**                                    **June 2020 - Present,**
• 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), gRPC, Pandas**