



# Mackenzie K. Cooper

## Software Developer



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## Education

### **Master of Science in Computer Science**

Portland State University, Portland OR  
August 2020 (expected)

### **Bachelor of Arts in History**

Sonoma State University, Rohnert Park, CA  
December 2014

## Experience

### **Computer Science Tutor**

Maseeh College of Engineering & Computer Science,  
Portland State University, Portland, OR  
September 2018 – Present

- Provided guidance to students seeking assistance with assignments and concepts in computer science
- Exercised knowledge in broad array of topics and subject matter, including but not limited to: C/C++/Java/Python syntax and conventions, OOP, basic data structure and algorithm implementations, and design ideation and specification

## Projects

### **Chat Application**

A chat application done entirely in Java using Sockets and Swing using the server/client model. It has a fully functioning GUI and makes use of asynchronous threads to handle incoming connections to the server.

### **Convex Hull**

An implementation of Convex Hull algorithms using Java for the purposes of comparing algorithmic complexity and run-time performance. Also includes a small Python program to plot the results of solutions.

*See my website or GitHub for links to these projects*

## Skills

- Agile / Scrum
- Git / Git Flows
- Debugging (GDB, JDB)
- Asymptotic Analysis
- Object Orient Programming
- Unit Testing
- Test Driven Development
- Vim / IntelliJ IDEA / VS Code

## Languages

- Java
- C / C++ / C#
- Python
- HTML / CSS / JS
- Node / React