

Max Sutters

CONTACT INFORMATION *LinkedIn:* <https://www.linkedin.com/in/maxsutters> *E-mail:* msutters@cs.washington.edu
Phone: (206) 321-0208

EDUCATION **University of Washington**, Seattle, Washington USA
Paul G. Allen School of Computer Science & Engineering
B.S. Candidate, Computer Engineering (expected graduation date: December 2021)

Seattle Central College, Seattle, Washington USA
A.S., Computer Science & Engineering, June, 2019

PROGRAMMING PROJECTS **GuitXR**

- Programmed an AR application for the Magic Leap headset in Javascript and HTML via the WebXR API and A-Frame web framework
- Incorporated ML5.js-based pitch recognition library to enable real-time feedback on played notes
- Completed and presented VR capstone project at the University of Washington Reality Lab

HuskyMaps

- Used Java to implement a local navigation web application
- Programmed a rasterization system for rendering tiles when zooming in and out of the HuskyMaps interface, and an A* graph-based text search for locations on the map
- Hosted on Heroku

Tetris

- Practiced advanced object-oriented programming (OOP) by implementing Tetris in Java
- Reinforced understanding of composition, inheritance, and model-view-controller (MVC) architecture.
- Applied unit testing, version control through Git, and pair programming.

TECHNICAL SKILLS *Languages:* Java, C/C++, Python, Unix/Bash shell scripting, HDL, assembly
Tools: GNU Debugger (GDB), Vim, Git/GitLab, IDEA, KiCad, \LaTeX , Mathematica
Algorithm projects: Spam filter using machine learning (Naive Bayes), KD-tree nearest neighbor finder, content-aware image resizing with A* graph search
Operating Systems: Unix/Linux (CentOS, Ubuntu, WSL), Windows
Hardware: PCB design, 3D printing, flashing of Arduino/STM32 chips, SMD soldering

EXPERIENCE **Seattle Central College**, Seattle, Washington USA
Teaching Assistant **September, 2018 - March, 2019**
Duties included office hours, technical support, and management of cloud-based messaging forum. Driver of Slack use in computer science classes at Seattle Central College.

- CSC 110 Intro to Computer Programming with Clarke Wellman
- CSC 142 Computer Programming I with François Lepeintre

SACNAS Chapter, Seattle Central College, Seattle, Washington USA
Chapter Secretary **May, 2019 - August, 2019**
Leading member of Society for the Advancement of Chicanos/Hispanics and Native Americans in Science. Organized meetings and researched chapter project proposals, synthesized team documentation, and corresponded with chapter leadership and members. Volunteered for events including UndocuSTEM Conference.