

Maxime Sutters

CONTACT INFORMATION	<i>LinkedIn:</i> https://www.linkedin.com/in/maxsutters <i>E-mail:</i> msutters@cs.washington.edu <i>GitHub:</i> https://github.com/maximelearning <i>Phone:</i> (206) 321-0208
EDUCATION	<p>Speak_ Program Participant, March 2022</p> <p>University of Washington, Seattle, Washington USA <i>Paul G. Allen School of Computer Science & Engineering</i> B.S., Computer Engineering, December 2021 Selected Courses: Networks, Systems, Digital Design, Compilers, Data Structures and Parallelism</p> <p>Seattle Central College, Seattle, Washington USA A.S., Computer Science & Engineering, June 2019</p>
PROGRAMMING PROJECTS	<p>GuitXR: https://uwrealitylab.github.io/xrcapstone21sp-team4/</p> <ul style="list-style-type: none"> • AR guitar learning application for the Magic Leap headset with floating chords and tabs, instrument-mounted controls, and real-time pitch detection • Built in Javascript and HTML via the WebXR API and A-Frame web framework • Refactored ML5.js-based pitch recognition library for guitar • Presented completed VR capstone demo at the University of Washington Reality Lab <p>N-Car Parking Garage Simulator</p> <ul style="list-style-type: none"> • Designed and programmed finite state machine (FSM) logic in SystemVerilog for two presence sensors at the gate of a simulated parking garage and an n-bit counter to track available spots • Simulated functionality of hardware devices (LEDs, seven-segment displays, buttons, and switches) in ModelSim before flashing to the Altera DE1 SoC FPGA board <p>Tetris</p> <ul style="list-style-type: none"> • Programmed Tetris clone and implemented advanced object-oriented programming (OOP) code structures in Java • Reinforced understanding of composition, inheritance, and model-view-controller (MVC) • Applied unit testing, version control through Git, and pair programming
TECHNICAL SKILLS	<p><i>Languages:</i> Java, C/C++, Python, Bash, HDL, SystemVerilog, Verilog, assembly <i>Tools:</i> Quartus, ModelSim, GDB, Vim, Git/GitLab, IDEA, KiCad, L^AT_EX, Mathematica <i>Algorithm projects:</i> Spam filter using machine learning (Naive Bayes), KD-tree nearest neighbor finder, content-aware image resizing with A* graph search <i>Operating Systems:</i> Unix/Linux (CentOS, Ubuntu, WSL), Windows <i>Hardware:</i> PCB design, 3D printing, flashing of Arduino/STM32 chips, SMD soldering</p>
EXPERIENCE	<p>Seattle Central College, Seattle, Washington USA</p> <p><i>Teaching Assistant</i> September, 2018 - March, 2019 Held office hours, provided technical support, and managed online forum for students Drove Slack use in computer science, math, and physics classes at Seattle Central College Classes: Intro to Computer Programming and Computer Programming I (CSC 110/142)</p> <p>Seattle Central College SACNAS Chapter, Seattle, Washington USA</p> <p><i>Chapter Secretary</i> May, 2019 - August, 2019 Organized meetings, researched chapter project proposals, wrote documentation, and corresponded with chapter leadership and members. Facilitated UndocuSTEM Conference.</p>