Sean S. Wallace

555 Ramona Drive Apt. 90 ◆ San Luis Obispo, CA 93405 ◆ (808) 808-5417052 ◆ sswallac@calpoly.edu ◆ github.com/heatsink

Education

California Polytechnic State University, San Luis Obispo   Class Level: Sophomore
Bachelor of Science in **Computer Engineering**, June 2019   Overall GPA: **3.21**
Emphasis in **Software Engineering**
Related Coursework: Computer Programming Series, Digital Design, Computer Design & Assembly Language Programming, Computer Architecture, Systems Programming, Electrical Circuit Analysis Series

Skills

Programming Languages: Working knowledge of C, Java, Scala, and Python
Development Tools: Familiar with git, vim, Eclipse, IntelliJ Bash, UNIX, and ROS
Hardware Development: Exposure to VHDL, Xilinx, Eagle
Web Development: Basic knowledge of HTML, CSS, React, and AngularJS
Operating Systems: Comfortable developing in Linux, OSX, and Windows environments

Work Experience

Amazon   San Luis Obispo, CA
Jr. Software Development Engineer   April 2017 – Present
- Member of the Author Services team and Kindle Organization
- Worked on modernizing and rewriting the Amazon Author Central Service

Project Highlights

Autonomous Golf Cart
Ongoing project with the Cal Poly Robotics Club   September 2016 – Present
Design software with ROS framework, write firmware for a board using an STM32 chip
- Python, C, ROS

RAT MCU
Implemention of a basic microprocessor design in VHDL   March 2016
Targets the BASYS 3 FPGA using the Vivado Design Suite
- VHDL, Digital Design

Chess AI
Rudimentary chess AI that plays a weaker version of itself   January 2016
Designed using a mailbox board representation and a branch traversal algorithm
- Java, Object-oriented programming

Ninja Fighter RPG
Simple top-down action-based RPG   September 2015
Created in the Greenfoot IDE
- Java, Object-oriented programming, game design

Extracurricular Activities

Cal Poly Robotics   San Luis Obispo, CA
Software Team Member   September 2016 – Present
- Wrote collision detection software in python using the ROS framework
- Implemented an RC control system for the autonomous golf cart project

ACM-ICPC International Collegiate Programming Contest   San Luis Obispo, CA
Annual Contestant   December 2016 – Present
- Member of Cal Poly Team 4

Honors

- Hawaii Rotary Club Scholarship
- Dean's Honor's List (Fall 2015, Fall 2016)