

# Sean S. Wallace

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## 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**

Jr. Software Development Engineer

San Luis Obispo, CA

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**

*Implementation 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**

Software Team Member

San Luis Obispo, CA

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**

Annual Contestant

San Luis Obispo, CA

December 2016 – Present

- Member of Cal Poly Team 4

## Honors

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