

# Stuart A. Irwin

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## Work Experience

### **Sales Associate**, May - August 2019

The Home Depot

- Worked at the service desk handling returns and various customer calls.

### **Courtesy Clerk**, July - August, 2018

Quality Food Centers

- Handled various front end tasks such as greeter and bagger.

### **Youth Camp Counselor**, June - July, 2018

Corporate Kids Events

- Helped oversee ~30 2nd grade children during a conference event.

## Programming Experience

### **Lead Scouting Programmer**, September 2015 - July 2018

Issaquah Robotics Society, FRC team 1318

- Trained and led a small team in creating a professional application for data collection and analysis.
- Personally built large portions of the system, including Android input devices and html graphing interface.

### **Android Developer**, November 2016 - December 2017

- Published a small free android game, Ten Seconds to Symmetry, on the Android Play Store.

### **Other Programming**

- Worked alongside a partner to place in the advanced division of a local coding competition, using the programming language Kotlin.
- Created a small embedded programming language [Solisp](#).
- Created two Minecraft mods with over 30,000 downloads between them.
- Written 3 articles and 3 snippets for [Sample Programs in Every Language](#)
- Completed Hacktoberfest 2018 and 2019.

## Volunteering

### **Robotics Outreach Speaker**, September 2015 - July 2018

Issaquah Robotics Society, FRC team 1318

- Helped at over 30 events, in a variety of festivals and fairs.
- Invited to Boeing Family Days, and elementary science fairs.
- Demonstrated science and technology to students of all ages.

### **Summer Camp Counselor**, July 31 - August 4, 2017

Sammamish Girl Scout Day Camp

- Lead group of 20 boys, relatives of camp volunteers.
- Guided and assisted children through various crafts and games.

## Education

### **Washington State University**, August 2018 - present

- Certified Computer Science Major

### **Issaquah High School**, August 2014 - June 2018

- 5 on AP Computer Science exam
- Earned score of 1320 on SATs

## Skills

### **Languages and Tools**

- Object Oriented Programming - C++, Java, Python,
- Functional Programming - Kotlin, Lisp, Haskell
- Low Level Programming - C, MIPS,
- Web Server Development - HTML, GraphQL, JSON,
- Data Analysis - SQL, R, Tableau,
- Linux System - Bash, ssh, git

### **Set up custom Arch Linux distro for development work**

- Hand configured dual boot setup with Grub.
- Modified Dynamic Window Manager (dwm) from source code.
- Set configurations for fstab, sxhkd, sublime\_text, etc.
- Connected ssh keys for multiple purposes including git authorization.

### **Lead a team of students on a major technical project**

- Built a stable and complex system for competition.
- Used UML to design a solid, reusable database.
- Used to plan strategies and reach the robotics world semifinals.
- Integrated new students into the team yearly, and personally managed it for three years.
- It is still being used by that team two years later.

### **Designed and implemented a project based custom version of lisp**

- Built a C++ based interpreter for an embedded lisp-like programming language.
- Set up an expandable list of functions, with clear support for integrating new data structures.
- Embedded the language interpreter into an ongoing video game project, as a modular system to define various different scenarios and gamemodes.