



Shea Line

SOFTWARE ENGINEER INTERN

Objective

Current computer science student with progressive experience writing code and designing solutions. Seeking a challenging role as a Software Engineer Intern. Adept at working effectively in fast-paced, deadline-driven settings that demand strong organizational and analytical skills.

Education

Computer Science: Game Design, University of California, Santa Cruz, Santa Cruz, CA

SEPTEMBER 2021 – PRESENT

Relevant Course-Work: CSE 12 - Computer Systems and Assembly Language, ECE 13 - Computer Systems and C programming, CSE 30 - Programming Abstractions in Python, CSE 40 - Machine Learning Basics, CSE 101 - Data Structures and Algorithms, CSE 150 - Intro to Computer Networking, CMPM 178 - Human Centered Design Research, CMPM 123 - Advanced Programming

Academic Projects

ECE 13 - Computer Systems and C Programming

- Wrote embedded C programs on a 32-bit micro-controller (MicroChip PIC32).
- Designed a finite state machine for a simulated toaster oven on the PIC32.
- Worked with a partner to develop the libraries and agents necessary for a two-player game of Battleship between two micro-controllers. This included creating a "Message" interface that used the UART protocol in order for the PIC32s to communicate throughout the game.

CSE150 - Intro to Computer Networks

- **SDN Router Implementation Using POX Controller:** developed a router using Software Defined Networking (SDN) principles, utilizing the POX Controller for dynamic traffic management and control.
- **Complex Network Topology Configuration:** Successfully configured a virtual multi-subnet network topology, involving meticulous specification of MAC addresses, IP addresses, and subnet details for each host using Mininet.
- **Developed a Fully Functional Web Server in Python:** Engineered a robust web server from scratch, capable of processing HTTP GET requests using sockets

Experience

Crew Member and Trainer, Chipotle, Santa Cruz, CA

JULY 2023 – PRESENT

Front of House, Korbelt Gourmet Delicatessen, Guerneville, CA

MAY 2019 – SEPTEMBER 2022

Executive Council, Sigma Pi Fraternity, Santa Cruz, CA

- Created a donation website from scratch for alumni to donate to fraternity, brought in several hundred dollars of donations from that project

Details

Santa Cruz, California
(707)-479-6922
sline@ucsc.edu

Project Portfolio Website

<https://shealine.github.io/>

Activities

Golf, Basketball,
Camping/Outdoors, Technology,
Volunteering

Skills

Programming Languages- C, C++,
Python

Familiar with Linux environments

Graphic Design

Customer service and multitasker