SEANTFUHRMAN@GMAIL.COM
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Summary of Qualifications

Current 3rd year Computer Engineering Student at UCSD. Highly proficient in programming with over 7 years of experience developing applications; with a broad knowledge base of hardware and software to design innovative systems. Experienced in web design using HTML/CSS/Javascript, incorporating Python libraries such as Numpy, PyTorch, Pandas, Matplotlib, and C++ Standard Template Library. Extensive leadership and teamwork experience, with an ability to communicate my ideas clearly.

Skills

- Programming Languages: Python; HTML/CSS/Javascript C++/C; Java; Linux/Shell;
- · Software: VS-Code; MS Office; Word; Excel; Google Suite; Google Docs; Google Slides; Google Sheets; Zoom;
- · Libraries: Matplotlib; Numpy; PyTorch; C++ STL;
- · Hardware: Raspberry Pi; Arduino; designing and soldering circuits;

Education

San Diego, CA

University of California San Diego

2020 - 2024

- Bachelor of Science in Computer Engineering | Major GPA: 3.9 | GPA: 3.75
- **Coursework**: Object Oriented Programming, Advanced Data Structures & Algorithms, Computer Architecture, Probabilistic Machine Learning, Web Client Languages.
- · Awards: Provost Honors
- Extracurriculars: Ski & Snowboard Team, Alpha Epsilon Pi Philanthropy Chair, Sailing Club

Experience

Research Internship, System Energy Efficiency Lab Language: Python

July 2022- Present

- Utilizes: Python, Numpy, PyTorch, MatplotLib
- Assisted with research on Hyper-Dimensional Computing and its use for energy-efficient processing-in-memory machine learning.
- Developed Python model to simulate machine-learning algorithm running on error-prone hardware, and then analyze results.

Teacher's Assistant Internship, Game-U

Languages: JavaScript,C#

2016

- Utilizes: JavaScript, C#, Unity
- · Teacher's assistant for after school programs and summer camp to teach children video game programming

Projects

Personal Website

Language: HTML/CSS/Javascript

2015

- Utilizes: HTML/CSS/Javascript
- Designed and programmed my own resume website at seanfuhrman.com

LED Infinity Mirror Language: C 2021

- · Utilizes: Arduino
- Designed a Hand-Built LED infinity mirror with color-changing LED strip.

Room Automation System

Languages: Python, C

2016-2020

- · Utilizes: Raspberry pi, Arduino, Speech Recognition Library, RESTful APIs
- · Designed, prototyped, and debugged microcontroller system designed to act as "assistant" via voice commands
- · Capable of controlling lights, telling the weather, and playing music