Ryan Hua

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OBJECTIVE

Sophomore in Computer Engineering with interest in Machine Learning seeking an internship in 2022.

EDUCATION

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY   **Blacksburg, VA**
Bachelor of Science in Computer Engineering, Minor in Music-Technology Emphasis   May 2024
Cumulative GPA: 3.52

EXPERIENCE

Cybersecurity Internship at Triple Point Security   **Blacksburg, VA**
Intern   Spring 2022
- Working in a cohort to complete deliverables given by Triple Point Security
- Working with Virtual Machines to learn about CLI and GUI operations related to Cyber Security and Network
- Using different server connections such as SSH, telnet, FTP, apache2 to test ping, scp, Nmap commands and Wireshark capturing packets
- Tools: VMware, Kali Linux, Ubuntu desktop, Ubuntu Sever, Wireshark

Undergraduate Machine Learning Researcher at the Hume Center   **Blacksburg, VA**
Volunteer   Spring 2022-Present
- Using python to learn about Machine learning classification and detection
- Communicating with a team of 5 about research issues and planning out tasks for the research
- Gaining experiences in using the GitHub repository to create issues, pull requests, etc.
- Tools: Atom text editor, Python 3.10, GitHub Bash/Desktop, Jupyter Notebook

SKILLS

Technical skills: Microsoft Office, MATLAB, C/C++, Arduino, Verilog HDL

Simulation tools: KiCad, LTspice, Quartus, Waveform

PROJECTS

Personal Website   Spring 2022-Present
- Working on creating a personal website to post about my ongoing projects and/or complete projects.
- Tools used: HTML, JavaScript, CSS, Atom text editor, Github Desktop

Class A Amplifier in Virginia Tech Amp Lab   Spring 2022-Present
- Building a single stage class A amplifier using KiCad based on the PCB design and schematic by Nelson Pass

Macro pad with Rotary Knob programmed with multimedia function   Winter 2021
- Experimented with building a macro pad with a Raspberry Pi Pico, rotary encoder, and keyboard switches to make a multimedia knob that could be used as to scroll up and down webpages or could be used to change the computer's volume using Python and Thonny IDE

ACHIEVEMENTS

Boy Scouts of America   Fall 2017-Spring 2018
Eagle Scout Award

- Highest ranking in BSA that shows leadership, service, and spirit

ACTIVITIES

Society of Asian Scientists and Engineers, Virginia Tech   Fall 2020-Present

Deloitte Virginia Tech FirstGen Mentorship Program   Spring 2022

RELEVANT COURSES

- Circuit and Devices
- Embedded Systems
- Music Theory
- Computational Engineering
- Signals and Systems
- Computer Music & Multimedia
- Fundamentals of Digital Systems
- Physical Electronics