**Vincent Li**

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A computer systems engineering undergraduate searching for an internship related to computer engineering.

**EDUCATION**

**Bachelor of Science in Computer Systems Engineering** December 2021

* Barrett, the Honors College at Arizona State University GPA: 3.26

**SKILLS**

* C/C++, Java, JavaScript, Python, Bash, MATLAB, MIPS, x86, Linux, Git, Jupyter Notebook, Android app development, web app development
* Embedded systems, Xilinx Vivado, Verilog, LTSpice, Autodesk Eagle, computer networks

**PROFESSIONAL EXPERIENCE**

**Algorithm Developer | ASU School of Arts, Media, and Engineering | Tempe, AZ** August 2020 - Present

* Working with the Lifelog Project at ASU, which researches the use of machine learning on wearable data to verify the effectiveness of medical studies and interventions
* As part of my honors thesis project (ASU), developed and deployed a web application called SigNorm (web-app.li-vincent.com) for the purpose of easily preprocessing time-series data using an interface similar to a file converter. Used the React and Express frameworks, and hosted on an AWS EC2 server

**Student Software Engineer | ASU Research Computing | Tempe, AZ** May 2019 - August 2019

* Gained experience with using Linux, Bash scripts, C++, Python, and Slurm Workload Manager to interact with the high-performance computing cluster
* Presented a poster (“Porting CPU Agent-Based Modelling Applications to GPU”) and participated in the student program at PEARC19 in Chicago, IL
* Presented a lecture to a graduate-level anthropology research class on how to implement agent-based modeling on the ASU Agave research computing cluster

**ACADEMIC PROJECTS**

**ASU | Embedded systems project** November 2020 - December 2020

* Created a circuit using the FRDM-KL46Z development board, with an ARM Cortex-M0+ processor, to control the speed of a motor based on an analog input from a potentiometer
* Used the PIT module the trigger timer interrupts, the ADC module to read the analog voltage, and the PWM module to change the speed of the motor

**ASU | Network application** October 2020 - November 2020

* Programmed a network application using Java and its socket programming libraries
* Implemented both client-server and peer-to-peer networks with UDP socket communication

**ASU | Audio amplifier circuit** April 2020 - May 2020

* Designed a multistage audio amplifier circuit with MOSFETs
* Complied with the design requirements such as minimum voltage gain and bandwidth
* Wrote a report which includes schematics, component values, calculations, and output waveforms

**ASU | FPGA programming project** January 2019 - May 2019

* Used Icarus Verilog and Xilinx Vivado to implement circuits on FPGA

**ACTIVITIES**

**Race Director (2020-2021) / Board Member | Cycling Club at ASU | Tempe, AZ** August 2017 - Present

* Treasurer 2019-2020
* Safety Officer 2018-2019
* Participated in intercollegiate club sports competitions, having down around 30 road and mountain biking races around AZ, CA, and NM