**Ameer Khan**

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**OBJECTIVE**

Recent computer engineering graduate with a strong passion for software development. Joining the software industry as a software developer would be a great place to start my career.

**EDUCATION**

**University of California, Santa Cruz Santa Cruz, CA**

***Bachelor of Science in Computer Engineering with Honors* September 2015 - June 2019**

GPA: 3.1/4.0

*Relevant Coursework:*

|  |  |
| --- | --- |
| • Algorithms and Abstract Data Types | • Data Structures |
| • Operating Systems | • Microprocessor System Design |
| • Computer Networks | • Network Programming |
| • Computer Architecture | • Logic Design |

**PROJECTS**

**Facial Recognition System | Python March 2020 - Present**

***Personal Project***

* Developing a program that can locate, detect and classify each face in real-time from a video frame using the python libraries face-recognition and OpenCV

**Smart Diagnostic Toy | C, Python, Microcontroller January 2019 - June 2019**

***Senior Design Project***

* Worked in a team of five to build a smart toy that can monitor developmental delays of young children
* Developed an algorithm in C to generate the game on a microcontroller that can monitor color and shape recognition
* Developed a python script to plot and analyze data from a csv file in order to generate a diagnostic report

**TCP Chat Program | C** **February 2019 - March 2019**

***Network Programming Project***

* Built a TCP-based chat program in C that is composed of multiple clients and a server program which is used to connect clients so that they can exchange messages

**Oscilloscope | C, Microcontroller, Raspberry Pi** **November 2018 - December 2018**

***Microprocessor System Design Project***

* Built a dual-channel oscilloscope in C that runs on a raspberry pi which is responsible for configuring the oscilloscope parameters, collecting samples from the microcontroller and displaying the data graphically

**SKILLS**

***Programming Languages:*** C, Python, Java, HTML, CSS, JavaScript

***Frameworks/Tools:*** Git, Pandas, Matplotlib, NumPy, SciPy, Unix, Microcontrollers, Raspberry Pi, Oscilloscope, Multimeter

**LEADERSHIP EXPERIENCE & ACTIVITIES**

**Society of Asian Scientists and Engineers Santa Cruz, CA**

***Member* September 2015 - June 2019**

* Networked with other club members in order to help each other with professional development
* Mentored and taught new club members
* Participated in fundraisers in order to help raise money for networking trips to Google, Intel, etc.

**VOLUNTEER EXPERIENCE**

**Fremont Main Library Fremont, CA**

***Teen Tech Volunteer* June 2013 - June 2014**

* Worked with ten other volunteers to help older adults learn how to use the Internet, smartphones, digital cameras, Microsoft Office and other online web-based accounts such as social media platforms
* Worked as a leader to make sure the older adults left satisfied and to help guide other volunteers as needed