

Ameer Khan

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EDUCATION

University of California, Santa Cruz

Santa Cruz, CA

Bachelor of Science in Computer Engineering

September 2015 - June 2019

Honors: Graduated with Honors in the Major

Relevant Coursework: Algorithms and Abstract Data Types, Data Structures, Operating Systems, Computer Architecture, Network Programming, Probability and Statistics for Engineers, Microprocessor System Design, Technical Writing for Computer Engineers

EXPERIENCE

Mentor Collective

Fremont, CA

Engineer Mentor

June 2020 - Present

- Providing incoming engineering students at UC Santa Cruz with insights to help them adjust to college
- Keeping track of each student's schedule in order to help them maintain a healthy work-life balance
- Facilitating their success by providing study techniques in order to improve their GPA
- Preparing them for post-graduation success by reviewing resumes and conducting mock interviews

Games for Love

Fremont, CA

Software Developer Intern

May 2020 - January 2021

- Created a virtual reality environment for the Oculus Quest in C# using Unity
- Assisted the development and implementation of new game mechanics under the direction of programming leads
- Analyzed existing code and proposed efficient solutions based on design specifications
- Collaborated with programmers in the designing, developing and testing process to ensure the highest quality product

University of California, Santa Cruz - Jack Baskin School of Engineering

Santa Cruz, CA

Senior Design Capstone

January 2019 - June 2019

- Researched, designed, documented and built a smart toy that monitors the development of young children using a sensor and a microcontroller
- Developed a test in C that measures the test subject's receptive, expressive and fine motor skills through visual and verbal instructions
- Created a diagnostic report that analyzes and interprets the test data using the Python data analysis and visualization tools Pandas, Matplotlib, NumPy and SciPy

PROJECTS

Facial Recognition System

March 2020 - April 2020

Personal Project

- Developed a program that can locate, detect and classify each face in real-time from a video frame using the Python libraries NumPy, Face Recognition, Dlib and OpenCV

TCP Chat Network

February 2019 - March 2019

Academic 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

Web Proxy

February 2019

Academic Project

- Developed a proxy HTTP server in C that can process HTTP requests generated by a web browser and filter requests based on an access control list

SKILLS

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

Frameworks/Tools: Git, Unix, Pandas, Matplotlib, NumPy, SciPy, Unity, Microcontrollers