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 - June 2021**

- Led a subset of incoming engineering students at UC Santa Cruz through a series of analytical activities as part of a monthly session, resulting in a 100% class pass rate
- Tutored students one-on-one monthly to ensure 100% of students were able to fully complete assignments they required assistance on
- Evaluated students' exams to ensure academic criteria was met and provided detailed feedback and suggestions resulting in an average grade increase by 10% by the end of the course

Games for Love **Fremont, CA**
Software Developer Intern **May 2020 - January 2021**

- Developed 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 in order to ensure the highest quality product
- Analyzed existing code and proposed efficient solutions based on design specifications in order to maintain a frame rate of 90 frames per second

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 device that monitors the development of young children using a sensor, Bluetooth and microcontroller
- Developed a program in C that tests the subjects' receptive, expressive and fine motor skills through visual and verbal instructions
- Generated a diagnostic report using the Python data analysis and visualization tools Pandas, Matplotlib, NumPy and SciPy on the test data, resulting in a 100% accuracy rate in terms of interpretation and analysis

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

SKILLS

Programming Languages: C, Python, Java, HTML, CSS, JavaScript, C#
Frameworks/Tools: Microsoft Office, Git, Unix, Pandas, Matplotlib, NumPy, SciPy, Unity, Microcontrollers