Khoi Nguyen

Irvine, CA | 669-770-5419 | thekhoinguyenn@gmail.com

EDUCATION

September 2017 - June 2021

University of California,Irvine

Bachelor of Science in Computer Engineering Cumulative GPA: 3.254

Dean's Honor List: Fall 2017, Winter 2017, Fall 2020

Relevant Courses Completed:

Engineering Databases and Algorithms, Data Management, Organization of Digital Computers, Advanced C Programming, System Software, Compilers and Interpreters

PROJECTS

Robotic Hand with Haptic Feedback   *September 2020- March 2021*
- Designed and fabricated 3D printed robotic hand using Arduino to control movement
- Implemented haptic feedback glove utilizing flex sensors and bluetooth to control robotic hand
- Processed ensor readings from glove as inputs for game of rock paper scissors
- Used: Python, SolidWorks, Arduino

Messenger Application   *January 2019 - April 2019*
- Application to connect users using client-server model to send messages using socket library
- Added ASCII implementation of chess as a messaging option between clients
- Used: C, Git

Super Mario for Android   *April 2019 - June 2019*
- Sidescroller game for Android phones of Super Mario using 2D arrays to represent blocks
- Used JFrame and Canvas to draw logical representation onto Android phone
- Used: Java (JFrame, Canvas), Git

Photo and Video Filter   *September 2018 - December 2018*
- Implemented edge detection, black and white, saturation control, and inverted photo filters in C
- Used linked lists to link frames in video together to apply filter to videos
- Used: C

VOLUNTEER WORK

December 2018 – April 2019

Officer Filipinos Unifying Scientists in an Organized Network, Irvine, CA
- Organized and led meetings that provided knowledge about Filipino culture with an emphasis on engineering activities such as designing a carrier for an egg to survive a fall and designing an electric skateboard

SKILLS
- Advanced: Python, Java, C, C++, Git
- Familiar: HTML/CSS, JavaScript, Assembly MySQL,SQL,MatLab,SolidWorks, Verilog
- Experience using Raspberry Pi, Arduino circuits