**EDUCATION**

**University of California, Merced,** Merced, CA*Expected May 2022*

*Bachelor of Sciences: Major in Computer Science and Engineering*  **GPA: 3.98**

**Relevant Coursework**:

Data Structures, Algorithms (Fall 2020), Database Systems (Fall 2020), Object-Oriented Programming (Fall 2020), Computer Organization and Assembly Language, Discrete Mathematics

**Honors/Awards:**

Summer Undergraduate Research Institute (SURI) Fellowship, Chancellor’s Honor List, Dean’s Honor List

**SKILLS & INTERESTS**

Languages: Python, C++, C, Java, HTML, CSS, JavaScript

Frameworks/Technologies: Django, Git, Tensorflow, Keras, OpenCV, Matplotlib.pyplot, React

**EXPERIENCE**

**Undergraduate Research Opportunities Center**,Merced, CA *June 2020-Present*

*SURI Undergraduate Researcher*

* Plan a research project on building a deep learning model for abnormal finger classification
* Implement using specific convolutional neural networks such as AlexNet, VGG16, and ResNet
* Write scripts to parse data and automate image processing with OpenCV
* Produced an accuracy of approximately 70% using a baseline variation of AlexNet

**Association for Computing Machinery**,Merced, CA *Aug 2019-Present*

*Member*

* Work on coding projects and attend workshops to further develop technical and professional skills
* Tour tech companies in the San Francisco Bay Area to familiarize with company culture
* Help computer science students with courses such as data structures and computer organization

**PERSONAL PROJECTS**

**Coursinary | Web Application** *May 2020-Present*

* Built a platform where UC Merced students can access course information from other students who already took the course
* Utilized Django framework with ModelForms and SQLite database and deployed through Heroku
* Surveyed volunteers for feedback on fixing bugs and implementing suggested features

**Dogs vs Cats Classifier | Machine Learning GUI** *June 2020-July 2020*

* Constructed a graphical user interface where the program classifies the uploaded image as a dog or cat
* Implemented with a slightly modified AlexNet architecture using Tensorflow, Keras, and Tkinter
* Optimized the model by constantly improving the model architecture to an accuracy of 95.65%

**Personal Website | Website** *Jan 2020-Feb 2020*

* Created a personal website using HTML, CSS, and JavaScript
* Featured fading animations to make the website look aesthetic for the user interface

**Searching/Sorting Visualizer | Web Applications** *Dec 2019-Jan 2020*

* Launched a web application that visualizes searching and sorting algorithms
* Programmed the application with React and wrote a description of the theory behind the algorithms
* Provided a teaching tool for students learning data structures and searching and sorting algorithms