Daniel Xiong

dxiong2000@gmail.com | (510)-359-9056 | github.com/dxiong2000 | linkedin.com/in/dxiong2000

EDUCATION

University of California Santa Cruz September 2018 – March 2021
B.S. Computer Science GPA: 3.8/4.0

EXPERIENCE

University of California Santa Cruz | Undergraduate Researcher June 2020 - Present

- Leading an undergrad research team under Dr. Yi Zhang in UC Santa Cruz's IRKM Lab.
- Creating a virtual assistant for medical symptom diagnosis using state-of-the-art technologies.
- Developing a named entity recognition symptom tagger (GloVe, BiLSTM, CRF), a symptom classification model (GloVe, BiLSTM), and a conversational model.

UAES Shanghai | Software Development Intern June 2019 – August 2019

- Developed a license plate detector using Python's OpenCV module.
- Learned and applied various machine learning algorithms, specifically convolutional neural networks, to improve upon the OpenCV license plate detector script.
- Worked with my team on an Inertial Navigation System for vehicles in an underground parking lot environment.
- Developed a Python script that automated the extraction, analysis, and transfer of compressed files from one machine to another through SSH.

PROJECTS

Tesla Stock Prediction | Python, Keras, Pandas, Matplotlib

- Used machine learning, natural language processing, and data mining techniques to try and predict Tesla stock performance based on Elon Musk's Twitter feed.
- Used sentiment analysis and implemented many predictive models, such as decision trees, random forests, naive bayes, and neural networks.

smile | Python

- Created facial recognition login software using computer vision as an alternative to Windows Hello, making facial login accessible on low-cost devices.
- Used Python for facial recognition, Batch scripts, and Windows credential providers.

hiwhatsyourna.me | Python, Flask, SQL-Alchemy, Jinja2, HTML5, CSS3, Google Cloud

- Created a web app where students can create virtual 'about me' profiles to be shared with a QR code; made to help connect students in a college dorm environment.
- Created with Python's Flask framework and a SQL-Alchemy database. Hosted with Google Cloud's App Engine.

Remake of Flappy Bird game | Java, Java AWT, Java Swing

- Created a Java Swing and Java AWT remake of the popular game Flappy Bird.
- This remake varies from the original in that at certain score thresholds, the gravity and colors become inverted.

EXTRACURRICULARS

Programming Competitions

- Competed in the USA Computing Olympiad at the Bronze, Silver, and Gold levels.
- Competed in the Lockheed Martin CodeQuest programming competition in Sunnyvale, CA.
- Competed in the Stanford University ProCo programming competition.

SKILLS

Languages	Python, C, C++, Java
Frameworks and Libraries	Scikit-Learn, TensorFlow, Keras, Flask, OpenCV, NumPy, Pandas, Matplotlib
Technologies	Git, Bash, Jupyter, Google Cloud