

Daniel Xiong

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EDUCATION

University of California Santa Cruz

B.S. Computer Science

September 2018 – March 2021

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.

Email Viewer Web App | JavaScript, Node.js, Express, React, PostgreSQL

- Created a web app remake of Google's Gmail.
- Used the NERP (Node, Express, React, PostgreSQL) stack.

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.

SKILLS

Languages

Python, C, C++, Java, JavaScript, SQL

Frameworks and Libraries

Node.js, Express, React, PostgreSQL, Flask, Scikit-Learn, TensorFlow/Keras

Technologies

Git, Bash, Jupyter, Google Cloud

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.