

# Daniel Xiong

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github.com/dxiong2000

## EDUCATION

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- **University of California, Santa Cruz** Sept. 2018 – May. 2021  
Computer Science B.S.
  - **GPA: 3.80**
  - **Relevant Coursework:** Data Structures & Algorithms, Natural Language Processing, Data Mining, Computer Systems & Assembly, Computer Architecture, Computational Models, Comparative Programming Languages

## EXPERIENCE

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- **Undergraduate Research**  
University of California, Santa Cruz June 2020 – Present
  - Currently leading an undergrad research team in developing a virtual assistant for medical symptom diagnosis.
- **Software Development Intern**  
UAES Shanghai June 2019 – Aug. 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 AND EXTRACURRICULARS

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- **Tesla Stock Prediction**
  - 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, naïve bayes, and neural networks.
- **hiwhatsyourna.me**
  - Created a web app meant to connect people in a college dorm environment.
  - Users input information that they want to share into a webform. A QR code is generated for them to put on their dorm door; the QR code leads to a dynamically created web page containing the user's information.
  - Created with Python's Flask framework and a SQL-Alchemy database. Hosted with Google Cloud's App Engine.
- **Remake of Flappy Bird game**
  - 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.
- **Lockheed Martin CodeQuest**
  - Competed in the CodeQuest programming competition at Lockheed Martin in Sunnyvale, CA.
- **Stanford ProCo**
  - Competed in the CodeQuest programming competition at Stanford University.
- **USA Computing Olympiad**
  - Competed in the USA Computing Olympiad at the Bronze, Silver, and Gold levels.

## SKILLS

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- **Languages:** Python, C, Java
- **Technologies:** Git, Google Cloud, TensorFlow, Keras, Scikit-Learn, OpenCV