

Daniel Xiong

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EDUCATION

University of California Santa Cruz

B.S. Computer Science

September 2018 – March 2021

GPA: 3.81/4.00

SKILLS

Languages	Python, C, C++, Java, JavaScript, SQL
Frameworks and Libraries	Node.js, Express, React, PostgreSQL, Flask, Scikit-Learn, TensorFlow/Keras
Technologies	AWS EC2, Google Cloud, Linux, Git

EXPERIENCE

IRKM Lab | Undergraduate Researcher

June 2020 – Present

- Leading a research team in UC Santa Cruz's Information Retrieval & Knowledge Management 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.

Bosch (UAES) | Software Engineering Intern

June 2019 – August 2019

- Developed a license plate detector using Python's OpenCV module.
- Applied various machine learning algorithms to improve upon the OpenCV license plate detector script.
- Worked 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.

Blackjack Discord Bot | Python, AWS EC2, SQLite3

- Created a Discord bot using Discord's API in Python.
- Users can create accounts and play blackjack to win tokens.
- Hosted the bot using AWS EC2 and stored user account information using an SQLite3 database.

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.

Emojiit | Python, Flask, React, BeautifulSoup, TextBlob, Heroku

- Created a web app that embeds user-inputted text with relevant emojis, implementing emoji webscraping with BeautifulSoup and NLP parsing with TextBlob.
- Used a React frontend with a Python Flask backend, hosted on Heroku.
- Category winner at UC Santa Barbara's SBHacks 2021.

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.