

Eugene Lee

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Education

Master of Science, Computer Science, *California State University, Fullerton* August 2020 – May 2022

Bachelor of Science, Computer Science, *California State University, Fullerton* August 2015 – July 2020

Skills

Languages: Python, R, MySQL, C++, PHP, MATLAB, Javascript, HTML/CSS, BASH

Frameworks/Libraries: NLTK, PyTorch, Scikit-learn, Numpy, pandas, Angular, Ionic

Tools: Git, RStudio, Docker, Xcode, Postman, Tableau, Excel

Experience

Graduate Research Assistant | California State University, Fullerton September 2020 – Present

Python, Jupyter Notebooks, Excel

- Developing research study to analyze sentiment on public transportation from Tweets.
- Using LDA and data processing techniques to perform natural language processing tasks.

Webmaster and Board Member | Association for Computing Machinery-Women, CSUF January 2020 – Present

Python, Flask, JavaScript, HTML/CSS

- Integrated calendar functionality with Google Calendars API on website to boost attendance in weekly meetings.
- Performed UI updates on ACM-W CSUF website.
- Established NodeBuds, a computer science mentorship program with ACM CSUF.
- Organized the Diversity and Leadership Summit at CSUF in Spring 2020.
- Put together a Python workshop during STEM Expo 2020 for the Girl Scouts of Orange County.

Software Developer and Python Instructor | Optimus Educational Services July 2019 – August 2020

TypeScript, JavaScript, PHP, MySQL, Git, Python, HTML/CSS, Xcode, Postman

- Added web page caching system and refactored MySQL queries to reduce average load time from 12 seconds to 2 seconds on web pages.
- Launched iOS application to help parents and teachers monitor academic performance.
- Implemented iOS notifications by integrating OneSignal API.
- Developed automatic invoice tool to replace manual invoice generation.
- Updated existing API's to scale to multiple branch locations.
- Led weekly Python class and coding projects for 10 students.

Projects

Identifying Real or Not Real Disaster Tweets October 2020 – Present

Python, Pandas, NLTK, Scikit-learn, Jupyter Notebooks

- Carried out exploratory data analysis on data sets to plan out project.
- Cleaned data and created tf-idf vector to prepare for classification tasks.
- Trained Naive Bayes classifier that achieved 79% accuracy in identifying disaster Tweets.

Wingman Date Planning App September 2020 –

Python, Flask, MySQL, Heroku, JavaScript, jQuery, HTML/CSS, Git

December 2020

- Implemented in CRUD API in Flask using MySQL.
- Integrated 3rd party extensions like FullCalendar, yelp API and Dragula.
- Deployed application to Heroku.

Covid-19 Data Tidying and Analytics March 2020 – June 2020

R, Rstudio

- Cleaned multiple datasets to prepare for analysis.
- Performed multivariate linear regression to explain variation in mortality between countries due to difference in demographics and hospital infrastructure.