

David Cheng

davidcheng.io
david.cheng@duke.edu

github.com/shavavo
linkedin.com/in/davidcheng-io

EDUCATION

DUKE UNIVERSITY

- Expected graduation on May 2021 | Candidate for Computer Science (BS) | GPA 3.8
- Relevant Coursework: Design and Analysis of Algorithms | Software Design and Implementation Computer Architecture
Discrete Math for CS | Data Structures and Algorithms | Signals and Systems | Experimental Interface Design
- Vice President of Institute of Electrical and Electronics Engineers (IEEE)

EXPERIENCE

OPTUM: SOFTWARE ENGINEER INTERN (JUN - AUG 19)

- As Development Lead and Product Experience Designer, coordinated a team in an AGILE work environment to ship features in bi-weekly sprints, and developed front end components in React Native + Redux, a backend Flask application, and Docker and Openshift deployment pipelines.
- Created a chatbot mobile application, integrated with personal health records. Pitched business value to high level executives and physicians on a biweekly basis.

FUQUA BUSINESS: FULL STACK WEB DEVELOPER (JUN18 - CURRENT)

- As sole developer, created three web applications focused on in-class interaction, data analytics, and machine learning. Used by professor and 400 students to analyze survey and class assignment responses, live in-class and out-of-class, enhancing education experience.
- Self hosted using Docker and Apache. Use of Dash, scikit, NLTK, mySQL. Deployment and development environments by shell scripts and automated processes.

DUKE DATA+: DATA ANALYST INTERN (JUN - AUG 18)

- Analyzed large data set of over 70,000 text records, created a machine learning model to identify high prospective donators, and triaged donators by interests with topic modeling and named entity recognition. Created a tool to model and predict future data leading to an increase in efficiency and effectiveness of fundraising.
- Employed Python libraries such as pandas, NLTK, Scikit, Tensorflow.

PROJECTS

FACT CHECKING (CHROME EXT)

- As a part of the Automated Fact Checking project at Duke, created a Google Chrome extension that modifies YouTube pages to display fact checks produced from a pipeline, which is synced with video playback.
- Built with Javascript, REST API, HTML/CSS Injection.

FORESITE (IOS APP)

- Rapid reporting and alert system driven by user reports of natural disasters. Sends notifications in certain radius of user reports, and maps reports in visualizations (in-app and on web), for victims and aid to coordinate efforts.
- Focused around live collection of data and rapid response with use of Firebase's live servers (geofire). Built with Swift, React, Google Cloud.

SKILLS

Java
Python
Javascript
React/
React Native/
Redux
HTML
CSS/SASS
Git
REST API
Swift (iOS Dev.)
Android Dev.
SQL Server
Text Mining
C++
LATEX
MATLAB
Illustrator
Premiere