Lawrence Chen

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EDUCATION

University of California, Berkeley   **Fall 2016 – Spring 2020**
B.S. in Electrical Engineering and Computer Sciences, College of Engineering
B.A. in Data Science, College of Letters and Sciences
Software Engineering Coursework: Algorithms, Data Structures, Database Systems, Computer Networking, Software Engineering
Data Science Coursework: Principles and Techniques of Data Science, Machine Learning, AI, Probability Theory

EXPERIENCE

Software Engineering Intern | Castlight Health   **June 2019 – Present | San Francisco, CA**
- Full-stack software engineering intern at a B2B healthcare and wellness SaaS company
- Implemented a new Angular service that integrates with the Mixpanel API to spearhead the re-instrumentation of analytics in the Ionic-based Castlight mobile app and help improve product analytics in the company
- Created unit tests with Jasmine and Karma to achieve 100% code coverage on my changes

Data Science and Analytics Intern | Under Armour   **May 2018 – December 2018 | San Francisco, CA**
- Intern at Under Armour Connected Fitness, Under Armour's tech-fitness branch located at the SF MyFitnessPal office
- Established an analytics pipeline to enable full tracking of Premium features
- Used Apache Hive through Qubole to create ETLs and facilitate data transfers between AWS and MySQL databases, SQL to query and join data, and Python pandas to curate a cleaned dataset of over 100 features
- Trained machine learning models on different subsets of users to investigate Premium trial conversion and churn
- Created Tableau visualizations of UACF Premium subscription data for UA company executives, including the CTO

Classroom Systems Analyst | UC Berkeley Office of the Registrar   **January 2018 - Present | Berkeley, CA**
- Used Google Apps Script, a JavaScript-based language, to code a variety of scripts on the Google Apps platform to simplify and optimize processing large sets of data containing thousands of rows of information
- Efficiently organized and scheduled events using enterprise software for over 40000 students and faculty
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Project Manager, Dawn Project | Pioneers in Engineering   **May 2018 – May 2019 | Berkeley, CA**
- Led a team to maintain Dawn, a cross-platform desktop application built on React and Redux on Electron
- Developed assignments for new members to familiarize themselves with the tech stack used in Dawn
- Manager in an organization advocating STEM education through robotics for 700+ high school students

PROJECTS

MultiMeet | Software Project (www.multi-meet.herokuapp.com)   **Spring 2019 | Berkeley, CA**
- Developed a full-stack web app with Ruby on Rails that integrates with a state-of-the-art matching API created by a PhD student that returns optimal matchings of multiple times to people for scheduling purposes
- Created database and models on SQLite development database, implemented controller logic, views, and RSpec and Cucumber tests, and deployed app on Heroku with Postgres production database

MyFitnessPal Food Classifier Model | Under Armour   **Summer 2018 | San Francisco, CA**
- Trained a CNN using Keras with Tensorflow backend on Google Colab to classify 5 fruits with over 90% accuracy
- Planned structure to replace Google Vision API with model, which then links to iOS app that queries our food database

20+ Hours Script | UC Berkeley Office of the Registrar   **Spring 2018 | Berkeley, CA**
- Developed a script using Google Apps Script that quarantines organizations who violate policies to expedite tasks
- Program sifts through thousands of rows of data in seconds, speeding up a task that would otherwise take hours

SKILLS

Programming
- *Backend:* Python ○ Java ○ Ruby on Rails ○ Google Apps Script ○ C
- *Frontend:* Angular ○ TypeScript ○ Ionic ○ JavaScript ○ HTML ○ CSS ○ React ○ Redux
- *Databases:* PostgresSQL ○ AWS Redshift ○ AWS S3 ○ MySQL ○ SQLite
- *Data Science:* NumPy ○ Pandas ○ SciKit-Learn ○ PyTorch ○ Keras ○ Tensorflow ○ Apache Hive ○ Apache Spark

Software
- *Development Tools:* Git ○ Vim ○ Jira ○ Visual Studio ○ Electron ○ IntelliJ ○ WebStorm ○ Google Cloud Platform
- *Data Tools:* Qubole ○ Tableau ○ Jupyter Notebook ○ Sequel Pro ○ Amplitude ○ Google Analytics ○ Mixpanel