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
Relevant Coursework:

CS170 - Efficient Algorithms and Intractable Problems	CS61B - Data Structures
CS188 - Artificial Intelligence	CS C100 - Principles and Techniques of Data Science	CS61C - Machine Structures
CS186 – Database Systems	STAT140 – Probability for Data Science	CS168 – Computer Networking

EXPERIENCE

Data Science and Analytics Intern | Under Armour Connected Fitness **May 2018 - Present | San Francisco, CA**
- Intern at Under Armour Connected Fitness, Under Armour's tech-fitness branch located at the SF MyFitnessPal office
- Led a comprehensive analysis of Premium in the MyFitnessPal app on both the product and the users
- Investigated existing tracking and established an analytics pipeline to enable full tracking of Premium features
- Used Apache Hive through Qubole to create ETLs and facilitate transfers between AWS and MySQL databases, then 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 trial conversion, monthly premium churn, and user success, providing indications and frameworks to classify users based on these criteria
- 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
- Took the initiative to create and self-direct projects from either open-ended requests or my own discretion
- Collaborated effectively with both technical and non-technical employees in a professional setting

Project Manager, Dawn Project | Pioneers in Engineering **August 2018 – Present | Berkeley, CA**
- Led a team to continue to develop and maintain the cross-platform frontend for Dawn, the PiE robotics control system
- 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

Software Developer | Pioneers in Engineering **January 2017 – May 2018 | Berkeley, CA**
- Developed Dawn, a desktop application built using React.js, Redux.js, and ES6 on an Electron framework, that provides an intuitive robotics user interface for high school students
- Designed and implemented new features for the code editor, robot status indicators, and shortcuts for the UI

PROJECTS

MyFitnessPal Food Classifier Model | Under Armour Connected Fitness **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**
- Created with Google Apps Script a 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

RDBMS and SQL Interpreter | Data Structures Project **Spring 2017 | Berkeley, CA**
- Created with Java a relational database management system which allows storage and access to tabular data
- Built a SQL interpreter that allows for inputting data, querying, and joining tables within the RDBMS

SKILLS

Programming
- *Backend:* Python ◦ Java ◦ PostgreSQL ◦ Google Apps Script ◦ C
- *Frontend:* HTML ◦ CSS ◦ JavaScript ◦ React.js ◦ Redux.js
- *Data Science:* NumPy ◦ SciPy ◦ Pandas ◦ Matplotlib ◦ Seaborn ◦ SciKit-Learn ◦ Keras ◦ Tensorflow
- *Miscellaneous:* Apache Hive, Apache Spark, LaTeX, RISC-V (Assembly)

Software
- *Development Tools:* Git ◦ Jupyter Notebook ◦ Electron ◦ Vim ◦ IntelliJ ◦ WebStorm ◦ CLion ◦ PyCharm ◦ Google Colab
- *Data:* Qubole ◦ Tableau ◦ SQLWorkbench/J ◦ Sequel Pro ◦ Amplitude ◦ Google Analytics