

CAMPBELL AFFLECK

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EDUCATION

University of California, Berkeley
B.S. in Electrical Engineering & Computer Sciences

May 2019

TECHNICAL STRENGTHS

Languages Swift, Java, Python, PostgreSQL, HTML, CSS
Technologies Xcode, IntelliJ, GitHub, Postman, Figma

EXPERIENCE

American Express
Software Engineer

Aug 2019 - Present

- Worked as the lead engineer on large back-end components vital to the loan and card application processes being deployed in new countries Amex was adding support for
- Developed a number of restful APIs for Amex employees to use when interacting with PostgreSQL databases
- Helped my team move from expensive third-party software to in-house platforms without disrupting the client experience

3D Printing and Modeling Class
Assistant Teacher

Aug 2016 - May 2017

- Co-lead classes on 3D printing and modeling, and taught students how to use Fusion 360
- Guided students through the prototyping process from developing an idea to making a 3D print of a product

PROJECTS

Rise - Archery Scoring & Tracking App (iOS)

- Developed Rise into one of the top rated apps for archery scoring on the app store with over 1,500 users through regular updates and community outreach
- Incorporated multiple frameworks for animations, data back up, and data visualization
- Gained experience maintaining an iOS app in production while working on new features, fixing bugs & user crash reports, responding to user requests, and pushing out new updates

Represent! - A Mobile App for Congress (Android)

- Developed a platform for users to discover, learn about, and contact their local representatives in Congress
- Implemented multiple APIs used to fetch legislator data and determine the user's congressional district

DevChat - A Terminal-Based Chat App

- Developed client-side and server-side code in Python for a text-based communication app similar to Slack
- Created features that permit users to set up and join both public & private, password protected channels, send private messages to each other, change their username, and view all available channels

Minesweeper Game

- Implemented a version of the game Minesweeper in Java with multiple levels of difficulty
- Utilized the Java GUI to make a standalone, packaged application that could be played immediately upon being downloaded

WAN Optimizer

- Implemented a middlebox application in Python to optimize the amount of data transmitted between clients over a Wide Area Network (WAN)
- Buffered and hashed data packets sent across the network into a hashtable using SHA1 encryption