Leon **Dai**

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Skills

Languages Python, Swift, Java, C++, Javascript, HTML, CSS
Frameworks & Tools React, Flask, Bootstrap, Jenkins, Git, XCode, Android Studio

Experience

ESCRYPT
Waterloo, ON

Secure Software Developer
September - December 2019

- Refactored the CycurACCESS mobile libraries to make use of the phones' TEEs for private key storage and cryptographic operations.
- Built a parameterized pipeline using Jenkins to build, test, and archive all the build configurations of the mobile library.
- Improved the Jenkins pipeline to test code coverage, generate the reports, and reject the build if it drops below a threshold.

Symbility Intersect
Toronto, ON

Mobile Engineer
January - May 2019

- Built multiple features for the re-design of President's Choice Financial's iOS banking application.
- Designed and implemented a scalable protocol system for user entitlements to manage privileges throughout the application.
- Collaborated with Solution Architects and others to perform integration with production servers for User Acceptance Testing.
- Created multiple reusable UIView and UITableView Components, reducing development time on UI pages.

HealthIM
Kitchener, ON

Software Developer
May - August 2018

- Independently developed and delivered an iOS application for police officers to use during mental health emergency calls.
- Built a view that compiles entered data and creates a PDF report to could be printed or sent to hospitals for further processing.

Projects

Vokal - Hackthe6ix
Javascript, React, AWS Transcribe
August 2019

- Implemented a speech analyzer with React and AWS Transcriber to provide feedback on the flow and tone of speech.
- Leveraged the Transcriber API with web sockets to provide real time api calls that could transcribe directly from the microphone.

Motorized Wheel Chair
C++, MSP430 Launchpad
May - July 2019

- Programmed a micro-controller to read light sensors and use the internal timer to calculate the speed of the wheel.
- Integrated hardware interrupts with a keypad module to allow for user input to set speed and distance thresholds.
- Designed, printed, and soldered a PCB that connects all the hardware modules such as the keypad, light sensors, and LEDs

Spotify Lyrics
Python, Flask, BeautifulSoup4
March - May 2019

- Implemented a web app with Flask that displays the lyrics to the song that is currently playing on Spotify for an account.
- Utilized BeautifulSoup4 and the Genius Music API to find and scrape a webpage with the lyrics to the currently playing song.

Education

University of Waterloo
Waterloo, ON

Candidate for B.ASc in Computer Engineering, Honours, Co-op
Expected May 2022

- GPA: 83.5%