Leon **Dai**

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Skills

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

Education

University of Waterloo *Waterloo, ON*
Candidate for B.ASc in Computer Engineering, Honours, Co-op *Expected May 2022*
- GPA: 83.5%

Experience

ESCRYPT *Waterloo, ON*
Secure Software Developer *September 2019 - Present*
- Researched and wrote an implementation documentation on mobile Trusted Execution Environments and its cryptography libraries.
- Refactored the libraries for iOS and Android to make use of their TEEs for private key storage and cryptographic operations.

Symbility Intersect *Toronto, ON*
Mobile Engineer *January - May 2019*
- 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.
- Reduced development time on UI pages by creating multiple reusable UIView and UITableView Components.

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.
- Created a view that compiled entered data and created a PDF report that 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 used 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 connected 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 song.