

Leon Dai

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EDUCATION

University of Waterloo

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

Waterloo, ON

Expected May 2022

TECHNICAL SKILLS

Languages	Python, Swift, Java, C, C++, Javascript, HTML5, CSS3
Frameworks	Flask, React, Bootstrap4, CocoaPods, Carthage
Tools	XCode, Android Studio, BeautifulSoup4, Git, Unix

EXPERIENCE

ESCRYPT

Secure Software Developer

September - Present

Waterloo, ON

- Converted communication from NFC to bluetooth which allowed for a larger communication distance
- Updated Firebase notifications for Android to display and work with custom flows

Intersect

Mobile Engineer

January - May 2019

Toronto, ON

- Created multiple reusable UIView and UITableView Components that eased creation of future views
- Designed and implemented a scalable protocol system for user entitlements to manage user privileges
- Collaborated with Solution Architects and other stakeholders to perform integration with the production servers in preparation for User Acceptance Testing

HealthIM

Software Developer

May - August 2018

Kitchener, ON

- Developed and released an iOS app for police officers to use in the field during emergency calls
- Implemented a system for encrypted device to device secure key exchange that allowed private keys to be delivered without the need to store anything on the server.

PROJECTS

Vokal (Javascript, React)

August 2019

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

Motorized Wheel Chair (C++)

May - July 2019

- Programmed a microcontroller to read light sensors and use the internal timer calculate speed
- Integrated hardware interrupts with the keypad module to allow for user input

Spotify Lyrics Site (Python, Flask)

March - May 2019

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