# Leon Dai

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## EDUCATION

**Candidate for BASc in Computer Engineering**, University of Waterloo          September 2017 - April 2022

## EXPERIENCE

**Security Engineer Intern**                                                                 May 2021 - August 2021
Wealthsimple                                                                                     *Toronto, ON (Remote)*

- Reduced the attack surface for newly proposed features by creating a prioritized risk catalog using the STRIDE method to map out the data flow and CVSS to assign severity scores
- Prevented malicious files from being uploaded by developing and deploying a scanner service in Ruby on Rails to scan files for potential threats
- Enhanced fraud protection by implementing an email heuristic endpoint to flag potentially suspicious emails

**Developer**                                                                                       Aug 2020 - August 2021
TOHacks                                                                                              *Toronto, ON*

- Planned and lead development of the front-end for TOHacks' applicant dashboard using React and Bootstrap, which was used to create 1700+ applications to TOHacks 2021
- Coordinated with back-end team to ensure a seamless experience for users through the applicant dashboard
- Streamlined 100+ help requests with 100% user satisfaction during the hackathon by building a Discord Bot using Nodejs and Firebase Firestore

**React Native Developer Intern**                                                       May 2020 - Aug 2020
Crease Pro                                                                                         *Minneapolis, MN (Remote)*

- Improved app usability and end user experience by completing a revamp in React Native
- Implemented a PyTorch model to perform real-time ball tracking by creating a native component in Swift

**Secure Mobile Developer Intern**                                                   Sept 2019 - Dec 2019
ESCRYPT                                                                                            *Waterloo, ON*

- Enhanced app security by refactoring the mobile SDKs in Swift and Java to make use of the device's Trusted Execution Environment (TEE) for cryptographic functions and elliptic key storage
- Built a parameterized pipeline using Jenkins to build, test, and archive all configurations of the mobile SDKs
- Improved the Jenkins pipeline to test code coverage, generate reports, and reject builds depending on criteria

**iOS Engineer Intern**                                                                       Jan 2019 - May 2019
Intersect                                                                                            *Toronto, ON*

- Built multiple features for the PC Financial iOS app, currently with a rating of 4.6/5 with 73 thousand reviews
- Implemented a scalable protocol system for user entitlements to manage privileges throughout the application
- Reduced development time on several views by creating multiple reusable UIView and UITableView Components
- Collaborated with server team to perform integration with production servers for User Acceptance Testing

## SKILLS

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|---|---|
| **Languages** | Swift, Python, JavaScript, Ruby, Java, SQL |
| **Frameworks/Tools** | React, React Native, Ruby on Rails, Nodejs, Firebase, MongoDB |