Leon Dai

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EDUCATION

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

EXPERIENCE

Software Engineer   July 2022 - Present
Modern Treasury   *San Francisco, CA*

- Designed and implemented a robust balance monitoring system using Ruby and Ruby on Rails.
- Implemented the front-end for the Ledger Account Categories feature using Typescript and React. Focused on a modular, maintainable architecture, allowing for reusability throughout the application.

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

Software 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 1
- Streamlined 100+ help requests with 100% user satisfaction during the hackathon by building a Discord Bot using Nodejs and Firebase Firestore

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

SKILLS

Languages	Ruby, TypeScript, Python, SQL
Frameworks/Tools	Ruby on Rails, React, Postgres, Nodejs, Firebase, MongoDB