

Leon Dai

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SKILLS

Languages	Python, JavaScript, Swift, C++, Java, SQL
Frameworks/Tools	React, React Native, Node.js, NumPy, Pandas, PyTorch, Firebase, MongoDB

EXPERIENCE

Software Developer	Jan 2021 - Present
Wise Systems	Cambridge, MA (<i>Remote</i>)

- Currently in progress, working on new features for web (Polymer), API(Node.js), and events scheduler(Scala).

Developer	Aug 2020 - Present
TOHacks	Toronto, ON

- Planned and lead development of the front-end for 'TOHacks' applicant dashboard using React and Bootstrap.
- Coordinated with back-end team to ensure a seamless experience for users through the applicant dashboard.
- Built a Discord Bot to help manage mentorship/help requests during events with Node.js and Firebase Firestore.

React Native Developer	May 2020 - Aug 2020
Crease Pro	Minneapolis, MN (<i>Remote</i>)

- Completed a full app revamp in React Native with corresponding server changes in Spring Boot.
- Developed a native component to implement a PyTorch model with the camera to perform ball tracking.

Secure Software Developer	Sept 2019 - Dec 2019
ESCRYPT	Waterloo, ON

- Refactored 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 Developer	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.
- Created multiple reusable UIView and UITableView Components, reducing development time on UI pages.
- Collaborated with server team to perform integration with production servers for User Acceptance Testing.

PROJECTS

Watfriends Built a web app to help students connect with each other using Node.js and MongoDB. Also implemented data collection, score calculation, and user matching using Pandas and Numpy.

Vokal - Hackthe6ix Implemented a speech analyzer with React and AWS Transcriber to provide real-time feedback on flow and tone of speech.

Motorized Wheel Chair Programmed a micro-controller in C++ to read light sensors and use the internal timer to calculate the speed of a spinning wheel.

EDUCATION

Candidate for B.ASc in Computer Engineering , University of Waterloo	Expected April 2022
Artificial Intelligence Option	