

# Owen Wong

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## Technical Skills

### Languages

JavaScript, TypeScript, Python, Java, Go, Kotlin, .NET, C++, SQL, HTML/CSS, R

### Frameworks & Tools

React, Redux, Node, Express, Vue, AWS, GCP, SQLite, PostgreSQL, Docker, Git

## Work Experience

### Dandelion Networks

*Toronto, Canada*

Software Developer

*September 2024 - Current*

- Piloted development of **10+** UI features for a crypto-wallet app serving **200+** users using **React Native** & **TypeScript**, incorporating theme toggles, contact management, and various UX enhancements
- Built secure backend API endpoints in **Go** to address the need for safe and robust wallet management, including transaction handling, user data encryption, and real-time currency exchange
- Integrated **Firebase** and **Redux** for enhanced data persistence, enabling seamless wallet recovery after app reinstallation, using BLS-12 cryptography and AES encryption for secure data handling and retrieval

### Ontario Health

*Toronto, Canada*

Software Developer

*January 2024 - April 2024*

- Developed a **Azure** & **.NET** healthcare data management web app by integrating HAPI FHIR server for healthcare interoperability, achieving a **92%** satisfaction rate from stakeholders' user acceptance testing
- Migrated healthcare provider data from ELK to Power BI by developing **ETL** processes and creating **SQL** procedures, providing alternate data reporting solutions and reducing daily report generation time by **24%**
- Authored 50+ **NUnit** unit tests to ensure robust functionality across Ontario Health applications

### Ownersbox

*Waterloo, Canada*

Software Developer

*May 2023 - August 2023*

- Led the **Java**-based development of a new Battle Pass backend system using scalable OOP designs to boost user engagement in daily fantasy contests, resulting in a **14%** increase in contest revenue
- Redesigned the boxscore widget and integrated a user onboarding flow using **React** and **Typescript**, which led to an **32%** increase in user signups and activations
- Optimized end-of-contest score processing efficiency with **distributed processing** logic, improving capacity to handle **100k+** contest entries and facilitating precise score calculations in under 10 minutes
- Wrote 100+ **Jest** & **Cucumber** tests to validate core functionalities and improve user experience coverage

### Unyte Health

*Toronto, Canada*

Software Developer

*May 2022 - August 2022*

- Built features for a **React** & **ExpressJS** app used by 10k health professionals to deliver digital therapeutics
- Revamped the login system using **AWS S3** and **Cognito**, streamlining the user login UX
- Designed and executed 50+ E2E **Cypress** tests that improved confidence in production deploys

## Projects

### Poker-Host-Ledger 📱 | *TypeScript, React Native, SQLite, Redux, Expo*

- Developed a React Native mobile app to manage poker game sessions and facilitate player payouts
- Integrated SQLite and Redux to track player stats, session details, and relational player data across sessions
- Incorporated Expo to containerize the application, create an APK, and publish to Google Play Store

### FitLog 📱 | *Go, JavaScript, React, Fiber, PostgreSQL, AWS, Docker*

- Implemented a React web app that allows users to log in and track their workouts and personal records
- Architected a Go backend using Fiber and PostgreSQL to securely store and retrieve user workout data
- Utilized AWS Cognito for secure user authentication, ensuring the protection of sensitive user data

## Education

### University of Waterloo

Candidate for Bachelor of Computer Science

*Waterloo, Canada*

*September 2021 - May 2026*