

# Victor Liu

GitHub: [github.com/VictorL000/](https://github.com/VictorL000/)

Portfolio: [victorl000.github.io/](https://victorl000.github.io/)

Availability: May 1st 2025 – Aug 31st 2025

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## SUMMARY OF QUALIFICATIONS

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- **Languages:** Kotlin, Go, Java, React, TypeScript, Tailwind CSS, JavaScript ES6/ES7, SQL, HTML, Sass, C#, C/C++
- **Technologies:** Android, PostgreSQL, SQLite, Docker, Google Firestore, NFC, Node.js, Vite, Webpack, MongoDB, EC2, Three.js


## EXPERIENCE

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- **Android Developer** Toronto, ON  
*WristCoin – Kotlin, Java, Dagger2, RxJava, RoomDB, SQL, Go, Redux, Typescript* May 2024 - Aug 2024
  - Paved a foundation for the usage of an **Ultralight AES NFC** tag, utilizing **byte-level communication** to implement AES authentication, anti-tearing protection, and CMAC and CRC validation, reducing the cost of a wristband by **5x**.
  - Designed an extensible **web extension**-based integration framework, leveraging **Kotlin Coroutines**, **MVVM** architecture, and **Google Firestore** to allow for seamless future integrations with any external Point of Sale software.
  - Developed a **Stripe** feature using **Kotlin** to support offline and tap-to-pay transactions, leveraging **dependency injection** and **reactive programming**, expanding our reach of potential customers to areas with poor connectivity.
  - Implemented an extensible pagination feature using **Go** and **React Redux** for high-traffic reports, significantly **reducing server load** and substantially **improving page load** times.
- **Full-Stack Developer** Toronto, ON  
*WristCoin – Kotlin, Java, Dagger2, RxJava, RoomDB, SQL, Go, Redux, Typescript* Jan 2024 - Apr 2024
  - Designed and implemented a robust shift tracking and reporting feature in **Kotlin**, complete with **access permissions**, data visualization, and **Bluetooth LE** printing, helping secure a crucial contract while paving a path for a **premium tiered product**.
  - Deployed two new custom performance reports using **Go** and **mux**, including the creation of new **API endpoints**, **SQL** queries, and comprehensive **acceptance tests** to ensure accuracy and security.
  - Overhauled website styling using **Sass** to ensure compatibility across all screen sizes, and modernized legacy **React** components, enhancing user experience and allowing for efficient and accessible on-site support on a mobile device.
  - Upgraded front-end codebase to **Webpack 5**, leveraging tree-shaking and minification plugins and resolving critical vulnerabilities to achieve a **10x reduction** in build time and a **37x reduction** in bundle size.
- **Front-End Developer** Toronto, ON  
*Mink Capital – React, TypeScript, Tailwind CSS, Vite, SQL, Figma, Google Search Console* May 2023 - Aug 2023
  - Re-engineered an outdated company website, boosting the **average engagement time by 45%** using **React**, **TypeScript**, **Tailwind CSS**, **PHP**, and **Headless WordPress**. Implemented a responsive layout, dynamic testimonial page, and blog page.
  - Employed **Axios**, **React State**, and **Effect** hooks to access WordPress API data, enabling flexible layouts and styling with **React** and **Tailwind CSS**, while maintaining user-friendly content editing.
  - Boosted website SEO performance to **1<sup>st</sup>** position in search engine rankings by implementing targeted optimizations based on insights from **Google Search Console**.

## PROJECTS

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- **Leatherworks — Leather Goods Catalogue**   
*Demo @ [github.com/VictorL000/leatherworks](https://github.com/VictorL000/leatherworks) — React, Typescript, React Router, Sass, Tailwind CSS, Vite, ASP.NET, MongoDB, Nginx*
  - Created a **MPA** catalogue for leather goods with an **ASP.NET Core C#** back-end to design a **RESTful** API endpoint to query a **MongoDB** database hosted on an **AWS EC2** server.
  - Implemented a persistent shopping cart using **React State**, **Effect**, and **Context** hooks with the browser **localStorage** property.

## EDUCATION

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- **University Of Waterloo** Waterloo, ON  
*Bachelor of Computer Science candidate* Sept 2021 – Present