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# **Jason Pan**

#### Education

# University of Waterloo (cGPA: 3.7/4.0)

2022 - 2026

Bachelor of Computer Science, HCI Specialization

Coursework: Data Structures & Algorithms, Object Oriented Programming, Functional Programming, Compilers

Skills

Languages: TypeScript, JavaScript, C++, Swift, Go, Python, Objective-C, SQL

Technologies: React, React Native, Firebase, Node, MongoDB, Supabase, Tailwind, Redux, Express

# Experience



# **Microart Services**

Sep 2024 - Dec 2024

Current Software Engineer Intern

- Developing end-to-end features for Microart's mobile app suite using React Native, Firebase, and Supabase
- Built ETL pipeline with Node and JavaScript, efficiently converting 100k+ CSV wine data records to JSON
- Automated review scraping and sentiment analysis using scripts, sorting 30k+ wines based on user preference
- Improved BLE connections with Microart's environmental monitoring chips, improving response time by 18%
- Implemented RPC functions in PostgreSQL through Supabase, streamlining the retrieval of wine details



# **Dandelion Networks**

Jan 2024 - Apr 2024

Mobile Developer Intern

- Developed robust full-stack features for the flagship crypto trading app leveraging TypeScript, Go, and Redux
- Created dashboard with real-time data visualization; enabled **thousands** of beta testers to monitor personal txns
- Optimized blockchain penny retrieval via WebSockets with asynchronous processing; reduced txn times by 24%
- Integrated push notifications for core messaging services and transactions via Firebase Cloud Messaging
- Resolved race conditions in concurrent operations with mutexes, ensuring accurate balances across blockchain



#### **NoTox**

Jul 2023 - Aug 2023

# Software Engineer Intern

- Refined product suggestion UI to enhance user experience, achieving a 30% increase in affiliate link engagement
- Built **REST APIs** to manage **10K+** data points for **hundreds** of users in **MongoDB**, streamlining user data
- Ensured product consistency across iOS and Android platforms through functional testing and manual testing
- Partnered with UX team to design user flows and wireframes using **Figma**, adhering to modern UI/UX principles
- Maintained and optimized app performance and maintainability by refactoring legacy code and expanding docs



### **Trinity Robotics**

May 2023 - Aug 2023

#### Software Engineer Intern

- Developed a full-stack e-commerce site for Trinity's robotics kits using React, Node, Express and MongoDB
- Engineered end-to-end checkout flow, leveraging StripeJS for payment processing to enable guick transactions
- Designed and built a library of 30+ reusable components, driving development efficiency and design uniformity
- Authored design docs for API usage and deployment processes, facilitating smooth future intern onboarding
- Collaborated with other engineers in Agile sprints, ensuring alignment on product backlog and deliverables

#### Personal Interests

- Design Fanatic passionate about experimenting with Figma plug-ins to enhance wireframe designs and improve UX
- Music Performance played trumpet in school band for 8 years; produced BGM tracks for personal Unity projects
- Volleyball played the sport for a year so far, part of a beginner intramural team; training to become a better setter