Tong Yin Han

tyhan@uwaterloo.ca | 6479168809 | https://github.com/tongyinn | https://www.linkedin.com/in/tongyinhan/

Skills

Product: User Research, User Interviews, Product Pitching, Product Roadmapping, Competitive Analysis
Tools: Jira, Confluence, Trello, Asana, Tableau, Git, Figma, Invision, Jenkins
Development: Python, C++/C, Java, JavaScript, TypeScript, SQL, DynamoDB, AWS, Docker

Education

University of Waterloo, Systems Design Engineering (BASc.) | GPA: 3.7   *Sept 2020 – Apr 2025*
Courses: Data Structures and Algorithms (C++), Design, Systems and Society, Human Factors in Design

Experience

Product Manager / Software Developer
Johnson Outdoors Canada   *Jan 2023 - Apr 2023*

- Conducted competitive research to identify opportunities for implementing wireless multimedia sharing via Linux SDK into underwater radar detection systems, **reducing hardware costs by 25%**
- Managed Bluetooth optimization rollout via GNU Debugger, clearing 30 blockers and minimizing bugs
- Developed Bluetooth network architecture diagram, enhancing data flow and **cutting downtime by 35%**
- Built a cross platform internal tool using C++ that allows users to easily access data in a shared memory based database, boosting data accessibility **efficiency by 25%**

Software Developer
Thomson Reuters   *May 2022 – Aug 2022*

- Developed features which generated and displayed educational certifications to bolster core internal tools using React, Express.js, and DynamoDB, **increasing traffic by 20%**
- Revamped core application Node.js API, resulting in a **40% reduction in response time** and improved scalability for the platform
- Implemented e-commerce platform with React, **increasing internal tool conversion rate uplift by 25%**

Lead Developer
Develop for Good   *Nov 2021 – Mar 2022*

- Led 4 developers to build MVP of mobile app using Java, Spring Boot, and Auth0 to improve care experience for patients with pancreatitis, tested by 9 partners, **reaching 3000 users**
- Increased **team development speed by 15%** by collaborating with product manager to innovate on the structure of Agile sprints and create 20 Jira user stories
- Utilized user research to scope product needs, addressing the lack of personalized care itinerary

Community and Leadership

Software Developer / Product Designer
Hidden Jams   *Aug 2023 – Present*

- Created a platform that analyzes streams, likes, playlists, and chart popularity to help users discover underrated songs from mainstream artists using React, Node.js, Spotify API, and Last.fm API
- Directed 30+ user interviews, gathering user insights to improve the feature prioritization process
- Generated high-fidelity designs with Figma, resulting in a **20% reduction in development time**

Product Manager
Engineers without Borders   *May 2023 – Aug 2023*

- Managed 4 developers in the deployment of a remote desktop server which facilitated community educational access, increasing access to educational resources for over 300 students

Logistics Lead
Tech+ UW   *Aug 2022 – Dec 2022*

- Led team of 3 organizers in executing program logistics, social events, career talks, and social media campaigns, increasing the University's largest peer-to-peer tech **mentorship program by 10%**