

**T K O****Tony Ko**
Staff Software Engineer - tko.devtel: [647-300-9787](tel:647-300-9787)
email: tony@tko.devlinkedin: [tkodev](https://www.linkedin.com/in/tkodev)
github: [tkodev](https://github.com/tkodev)

PROFESSIONAL EXPERIENCE

Full Version with Tech Stacks on LinkedIn

Staff Software Engineer

*Badal.io (Contract, Full-Time)***May 2023 – Nov 2024**

Toronto, ON (Remote)

- Co-led modernization for Beyond MPD, migrating legacy systems for oil rig operations to a next-gen architecture integrated with control systems, PLCs, and communications buses.
- Architected event-driven comms using event brokers for status updates across critical control interfaces.
- Built a real-time data visualization suite, leveraging SVG and Canvas, capable of tracking over 10,000 data points with sub-second accuracy.
- Developed CI/CD pipelines and back-end for calibration and sensor integration, streamlining multi-env deploys.
- Authored algorithms for precise fluid pressure control, optimized for safety and reliability, support by unit tests.

Staff Software Engineer

*Quantum Mob (Full-Time)***Nov 2022 – May 2023**

Toronto, ON (Hybrid)

- Spearheaded Vercel partnership, technical content and proposals that culminated in a Q1 2023 partnership.
- Led R&D and strategic planning for international retail/real estate clients; provided mentorship and designed hiring structures to support team expansion.
- Drove department-wide strategic initiatives and architectural improvements in partnership with Senior Engineers, optimizing project and resource alignment.
- Enhanced application architecture for enterprise projects, integrating Next.js, Docker, and Serverless solutions to support scalability.

Senior Software Engineer

*Quantum Mob (Full-Time)***Nov 2021 – Oct 2022**

Toronto, ON (Hybrid)

- Led architecture for Aeroplan's cross-browser extension and PayPower mobile app, securing three new client engagements through feature enhancements and refactors.
- Maintained 12 mobile CI/CD pipelines and integrated monitoring tools for improved app resilience.
- Hosted "Quantum Talks," a knowledge-sharing initiative, and presented on Turborepo and React Query.
- Designed and executed hiring process improvements for SE1 to Senior Engineers, optimizing for skill alignment.

Software Engineer II

*Quantum Mob (Full-Time)***Nov 2020 – Oct 2021**

Toronto, ON (Hybrid)

- Led system design for Aeroplan's redemption platform, securing contracts for architecture refinement and accessibility improvements.
- Integrated API, localization, and UI features; conducted code reviews to maintain high-quality standards.
- Directed a 5-person team for an AODA/WCAG accessibility overhaul, achieving compliance and enhancing UX.
- Created Figma designs for an internal dashboard, standardizing visuals and functionalities.

Software Engineer I

*Quantum Mob (Full-Time)***Nov 2019 – Oct 2020**

Toronto, ON (Hybrid)

Intermediate Software Engineer

*Brandfire Marketing Group (Full-Time)***Apr 2017 – Nov 2019**

Toronto, ON (In Person)

ACADEMIC HISTORY

9+ Recommendations on LinkedIn & Refs Available

Full Stack Development Certs (4x)

*FreeCodeCamp***2016 – 2019**

Toronto, ON (Remote)

B.Design, Environmental Design

*OCAD University***2013 – 2016**

Toronto, ON (In Person)