



→ Senior Software Engineer

Toronto, Canada

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<https://www.tko.dev>

TO WHOM IT MAY CONCERN

This letter is an application for **Senior Software Engineer** position.

I am a Sr. Software Engineer, with experience working with some of Canada's most well-known brands, such as Aeroplan, Air Miles, and Toyota. My work is modern (react, next.js, typescript, ORMs, etc), compliant (AODA / WCAG 2.0 AA, responsive), and scalable (Microservices, Serverless & Cloud deployments).

In the last 6 years, I've made the journey from junior to senior, team lead, SME, coaching, and hiring manager roles. I went from attending meetups to speaking at them and proposing major engagements with clients. I know what it is like to start from scratch, but also, how to execute with a team. Thus, I do my best to support team growth with not just code quality, but with project management, authentic peer support (coaching, mentorship, and documentation), and a wide range of experience (Full Stack, DevOps, UI Design).

In addition, I come from an interdisciplinary client-facing background in Interior Design. I love the intersection between function and user experience and I believe I offer a unique engineer + designer + consultative perspective that is missing in the industry.

I hope that by reading my resume, you'll find I am highly motivated, open to learning, and a good fit for your company's growth and culture. If so, let's chat, I'm always open to new connections!

Best,

Tony Ko

P.S. Check out my recommendations!





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EXPERIENCE

Senior Software Engineer – Nov 2021 - Present

Quantum Mob - Toronto, Canada

- **※※ Team Lead & Engineering**

- Team Lead: [PayPower Prepaid Mastercard](#)
- ID and reach out to client key stakeholders to propose new opportunities.
- Lead & developed new opportunities: White-label Monorepo with React Native & Web, Redux to React-Query, new UX-focused mobile redesign
- SME on Vercel & Monorepo technologies: Next.js, Turborepo, Vercel.com, Serverless

- **※※ Hiring Manager for Full Stack Roles**

- Created interview process & technical criteria for SE1 to Senior roles
- Lead interviews with intermediate and senior developers to assess technical fit

- **※※ Coaching and Mentorship**

- Biweekly coaching, feedback, and goal setting for SE1 to SE2 with company training.
- Mentoring & support for SE1 & SE2 developers: Documentation, code review, pairing, best practices.

- **※※ Company Initiatives**

- Technical Blog writing - Led to [Vercel Partnership](#) with Quantum Mob in Q1 2023
- Meetup speaker and planner - Turborepo & React Query in Quantum Mob 2022
- Owner of Quantum Talks - Weekly Knowledge Talks
- Rotating leadership with the engineering team to plan and establish dept-wide initiatives

Software Engineer II – Nov 2020 - Oct 2021

Quantum Mob - Toronto, Canada

- **※※ Team Lead & Engineering**

- QM Team Lead: [Aeroplan Shopping Button](#) and [Aeroplan eStore](#)
- Lead on WCAG 2.0 AA implementation & browser extension dev.
- Lead project discussions with clients to develop project requirements & expectations

- **※※ Hiring & Mentorship**

- Lead & assisted in interviews for new hires.
- Performed code reviews & pair support, using public & company best practices.
- Wrote API (swagger), and third party docs for internal and client teams.
- Created boilerplate & architecture for SSR, PWA and Browser extension apps

- **※※ Design**

- Use of company design system to create Figma designs for an architectural employee dashboard
- Set design system requirements with client designers.

Software Engineer I – Nov 2019 - Oct 2020 (see LinkedIn)

Quantum Mob - Toronto, Canada

Intermediate Full Stack Developer – Apr 2017 - Oct 2019

Brandfire Marketing Group - Toronto, Canada





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KEY PROJECTS

PayPower Prepaid MasterCard - Mobile Banking App - Team of 2

Apple App Store and Google Play Store

- Led research and development into refactor for white-labelling: Yarn Workspaces + Turborepo + React Native + Create React App.
- Led development of web component styling & mobile build pipelines (Android & iOS).
- Worked with client product team on developing agile processes.

Key Skills: Turborepo + React Native compatibility, mobile build pipelines, currency handling.

Aeroplan eStore – Points Redemption Store - Team of 15~

<https://aeroplan.rewardops.com>

- Led system design: bilingual Rush Monorepo React + Express, Redux and Material UI.
- Led team of 5 juniors on WCAG 2.0 AA compliance / implementation
- Built core features such as Air Canada API logic, Redux structure, localization & search.
- Worked with currency & checkout (Big Integer, Bambora, Nonces), and item variant indexing .
- Performed code reviews with a focus on maintainability & conventional comments.
- Wrote Integration and Unit tests with React Testing Library

Key skills: Redis caching, OAuth sessions, Caching, Redux, currency handling and JSS patterns.

Aeroplan Shopping Button – Browser Extension - Team of 2

Chrome, Firefox, Edge and Safari Extension Stores

- Led system design: bilingual Rush Monorepo React + Express, SWR, cross browser support.
- Developed WCAG 2.0 AA front end & webpack bundling for web & service workers.
- Developed Material UI components and built hooks on extension data flow: server to worker to client fetching.
- Worked with PO to establish agile Epics and Sprints & manage client requirements.
- Work directly with DevOps to implement scaling, security, release pipelines and deploys.

Key skills: PWA Service Workers, DOM content injection, CSP and CORS policy, SWR / Query fetch

Air Miles – Landing Page - Team of 50~

<https://airmiles.ca>

- Front end development in a react component Lerna monorepo + Adobe AEM (java) backend.
- Use SASS & BEM CSS standard to create styles compatible across a 100's of components.
- Work with PO & Team to estimate and implement feature requirements.

Key Skills: Monorepo component library, BEM CSS

EDUCATION

CSE – Full Stack Development – 2016 - 2017

FreeCodeCamp – Remote

CSS / JS, Libraries, Rest API, Algorithms

B.Des – Environmental Design – 2013 - 2016

OCAD University – Toronto, Canada - 3 of 4 years

Interior, Architectural and Civil Design