T K O

Tony Ko - Senior Software Engineer
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E X P E R I E N C E

Senior Software Engineer – Nov 2021 to Present
Quantum Mob Inc – Toronto, Canada

- ※※ **Engineering**
  - Team Lead: PayPower Prepaid Mastercard, Aeroplan Shopping Button
  - ID and proposed new technical engagements with client stakeholders
  - Led & implemented new opportunities: White-label Monorepo with React Native & Next.js, Redux refactor to React-Query, UX-focused mobile redesign.
  - SME on Vercel & Monorepo technologies: Next.js, Turborepo, Vercel.com, Serverless
  - Solution Architecting, estimation for global QSR coffee chain, and leading real-estate brokerage solution.
- ※※ **Hiring Manager for Full Stack Roles**
  - Created interview process & technical criteria for SE1 to SE3 (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 SE3 with company training.
  - Mentoring & support for SE1 & SE3 developers: Documentation, code review, pairing, best practices.
- ※※ **Company Initiatives**
  - Technical Content Creation - 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 lead engineers to plan and establish dept-wide initiatives

Software Engineer II – Nov 2020 to Oct 2021
Quantum Mob Inc – Toronto, Canada

- ※※ **Engineering**
  - QM Team Lead: Aeroplan Shopping Button and Aeroplan eStore
  - Lead on bilingual, 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 to Oct 2020
Quantum Mob – Toronto, Canada

Intermediate Full Stack Developer – Apr 2017 to Oct 2019
Brandfire Marketing Group – Toronto, Canada

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K E Y P R O J E C T S & S K I L L S

PayPower Prepaid MasterCard – Mobile Banking App – Team of 2
Apple App Store and Google Play Store
- ※※ **Key Skills:** Monorepo (Turborepo), React Native, Next.js, Mobile CI/CD, Multi-Currency, BigInteger, i18n.
  - Led research and implementation into refactor for white-labelling: Yarn Workspaces + Turborepo + React Native + Create React App.
  - Led implementation of web component styling & mobile build pipelines (Android & iOS).
  - Develop Agile process in client team,

Aeroplan eStore – Points Redemption Store – Team of 15~
https://aeroplan.rewardops.com
- ※※ **Key skills:** Monorepo (rush), React (CRA), Express, Redis, OAuth, Redux, Currency, Bambora, i18n.
  - 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

Aeroplan Shopping Button – Browser Extension – Team of 2
Chrome, Firefox, Edge and Safari Extension Stores
- ※※ **Key skills:** Monorepo (Rush), Express, PWA, Auth, DOM Injection, CSP & CORS, SWR / React Query, i18n.
  - Led system design: bilingual Rush Monorepo React + Express, SWR, cross browser support.
  - Implemented WCAG 2.0 AA front end & webpack bundling for web & service workers.
  - Implemented Material UI components and built hooks on extension data flow: server to worker to client.
  - Worked with PO to establish agile Epics and Sprints & manage client requirements.
  - Work directly with DevOps to implement scaling, security, release pipelines and deploys.

Air Miles – Landing Page – Team of 50~
https://airmiles.ca
- ※※ **Key Skills:** Monorepo (Lerna), React, BEM SASS, Rollup.
  - 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.

E D U C A T I O N

CSE – Full Stack Development – 2016 to 2017
FreeCodeCamp – Remote
- CSS / JS, Libraries, Rest API, Algorithms

B.Des – Environmental Design – 2013 to 2016
OCAD University – Toronto, Canada - 3 of 4 years
- Interior, Architectural and Civil Design