

# Ryan Tso

Richmond, British Columbia

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ryan-tso.com

## Technical Skills

### Programming

#### Programming Languages

- Java
- JavaScript
- Python
- TypeScript
- C
- C++

#### Web Development

- HTML
- REST API
- React
- Redux
- Next.js
- Node.js
- Django
- CSS
- Serverless
- MUI

### Database

- MySQL
- NoSQL
- MongoDB
- Mongoose
- Firebase
- AWS

### Cloud

- AWS Lambda
- AWS API Gateway
- AWS Step Functions

### Dev Ops

- GitHub
- Agile
- Jira
- Postman API
- Confluence

### Testing

- Junit
- Chai
- Mocha
- Swing
- End-to-End

## Other Skills

### Regulatory

Quality Assurance  
Quality Control  
ISO 9001  
Auditing  
HACCP

## Certificates

ISO 9001  
HACCP

## Experience

### Ensemble Scientific

2021 – 2022

#### Full-Stack Developer

- Implemented a complete back-end using Python and Django Rest Framework that provided extensive models to company IOT devices with API end-points to manage users, devices, data, telemetry, and organization information from the front-end cloud app or from the IOT devices themselves
- Developed the front-end using JavaScript, React, Next.js, and Redux allowing users to create or join organizations, as well as claim, manage, or view the data from the IOT devices for their organization in real time
- Created and maintained comprehensive test suites for back-end API end points
- Thoroughly documented and maintained API end-points using Postman API
- Helped to develop QMS modules that adheres to the requirements of ISO 9001
- Constructed an intuitive roadmap for the company to become ISO 9001 certified
- **Skills:** Python, DRF, JavaScript, React, Redux, Next.js, MUI, MySQL

### Organika Health Products Inc.

2012 – 2019

Richmond, B.C.

Quality Control Supervisor  
Quality Control Technician

2016 – 2019  
2012 – 2016

## Technical Projects

### AWExpress (2023)

A full-stack AWS-based solution developed for Amazon as an internal employee marketplace

- Was largely responsible for the structure, functionality, layout, and general aesthetics of frontend components and pages
- Managed the Git repository and app deployment for the team and was responsible for environment set up with React, Next.js, Redux, and AWS Lambda
- Created secure frontend and backend user authentication using NextAuth, AWS Lambda Authorizer, and Google as the authentication provider
- Guided team members in API endpoint implementation, as well as proper usage of frameworks and libraries such as React, Next.js, Redux, and Material UI
- Assisted with backend implementation using AWS Lambda and other AWS services
- **Skills:** JavaScript, HTML, React, Next.js, Redux, MUI, REST API, AWS Lambda, MySQL

## Education

### BSc. Integrated Computer Science

2019 – 2023

Vancouver, B.C.

University of British Columbia

### BSc. Food and Nutritional Science

2005 – 2012

Vancouver, B.C.

University of British Columbia