Ryan Tso

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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   2016 – 2019
Quality Control Technician   2012 – 2016

Technical Projects

AWExpress (2023) - https://main.d3kth9ne2jpxsc.amplifyapp.com/
A full-stack AWS Cloud based app developed as an internal employee marketplace
- Was largely responsible for the structure, functionality and layout 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