

# Frankie Liu

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## SKILLS

### Languages

JavaScript/TypeScript | HTML/CSS | Python | Ruby

### Frameworks/Libraries

NodeJS | Express | Socket.io | Angular | jQuery | PassportJS

### Data/Tools

MongoDB | MySQL | AWS | Postman | Git | JIRA | Confluence

## EXPERIENCE

### Nanoleaf – Fullstack Developer

Sep 2021 – Apr 2022

- Optimized database queries with lighter aggregations and filters, reducing data resources and load times of dashboards by **50%**
- Built AWS Lambda functions in conjunction with Amazon API Gateway to distribute encrypted tokens for legacy device hardware, enabling new software capabilities for **100+** devices
- Initiated software service prototype with cross platform integrations, laying foundational work for end-to-end development

### OpenText - Fullstack Developer

Jan – Apr 2021

- Integrated a more complex subset of rules to existing conditions for account creation, critically improving security for all clients and reinforce application reliability prior to scheduled PEN test
- Re-sourced and localized dependencies in **100+** test suites to reduce repetitive code and promote efficiency of testing environment amongst **40+** developers
- Restructured services in AngularJS to eliminate inconsistencies in client-side UI and maintain expected functionality of features

## PROJECTS

### Messaging App

EXPRESS | NODEJS | SOCKET.IO

May 2021

- A real-time messaging app that demonstrates bi-directional communication between server and client following the WebSocket Protocol
- Employed the usage of Socket.io rooms to create separate messaging channels and localize event changes

### Note Taker API

EXPRESS | NODEJS | MONGODB (MONGOOSE)

Apr 2021

- A functional note taker API that allows the creation of users and ability to add tasks
- Integrated function for email notification upon account creation & deletion via SendGrid library
- Utilized bcryptJS library for password cryptography and JSON Web Tokens (JWT) to allow account authentication
- Implemented RESTful API endpoints using Express and MongoDB to enable CRUD operations
- Enabled data validation and sanitization using Mongoose schemas and custom Express middleware functions

### Race For A Taste

REACT | EXPRESS | SASS | JAVASCRIPT

Nov 2020

- Developed a web app that employs Yelp Fusion API to decide the best restaurant option near user's geolocation
- Constructed with a React front-end framework and an Express server to retrieve necessary API endpoints
- Utilized Sass to create dynamic and interactive elements involving transitions and animations

## EDUCATION

### University of Waterloo

BACHELOR OF SCIENCE IN KINESIOLOGY, HONOURS

May 2024

- Completion of first year education on the Dean's Honours list
- Relevant courses: Computer Science I & II, Design & Data Abstraction, Data Types/Structures, Computer Systems