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