Sophia Luan

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Summary of Qualifications

- **Programming Languages and Database:** React (Redux), JavaScript, TypeScript, HTML, CSS (SASS/LESS), NodeJS, Java, Python, C/C++, MongoDB, SQL, Prolog, Scheme
- **Technologies and Platforms:** Git, Bash, Postman, Docker, AWS, GraphQL, Firebase, Android Studio, Qt
- **Knowledge**: RESTful API, Test-driven development, Agile methodology, Oauth
- AWS Certified Cloud Practitioner (Nov 2022)

Professional Experience

Fullstack Software Developer (Contractor), *Branchy Solution, Toronto*   Sep 2022 - Mar 2023
- Collect business requirements from the client, implement them into code modules. Set up project tracking tools and meeting cadences to oversee progress
- Design and implemented responsive web applications using MERN stack (React, NodeJS, Express and MongoDB)
- Integrate with client-provided CSS libraries, Stripe payment API, ensure seamless user experience across various devices
- Implement a rigorous testing strategy by writing unit and integration tests (Mocha), helping the client successfully deploy through a continuous integration and delivery (CI/CD) pipeline on AWS EC2

Software Developer Intern*, Zhaoyuan Information, Toronto*   Nov 2021 - Mar 2022
- Engaged in the planning and development of a new workflow management app, working with product management to ensure the client's requirements were met in a timely manner
- Conceptualized and engineered various workflow management interfaces utilizing Qt5 and QML, seamlessly integrating with the existing model structure
- Collaborated with other teams to incorporate diverse management functionalities into the workflow management app using C++, including user and manager roles, task management, and other pages that effectively implemented the workflow management application

Project Experience

Smart Fridge Chatbot   Aug 2023
- Developed a smart refrigerator with features including food inventory tracking and expiration date reminders, improving food management convenience and efficiency.
- Designed a multifunctional user interface using React.js, enabling intuitive display of refrigerator contents, and created an intelligent chatbot with decision-making capabilities.
- Integrated Langchain with Python for natural language interactions, offered diverse recipe suggestions based on refrigerator contents and implemented a versatile tool selection system within the chatbot to efficiently handle user queries and tasks.

Embedded Software Simulator   April 2021
- Developed a micro-current biofeedback device software simulation with multiple treatment modes and settings based on DENAS products.
- Designed and planned a project for optimal functionality and performance by utilizing use cases, UML class, etc
- Developed and optimized software using C++ in the Qt5 Creator UI development framework, resulting in user-friendly and intuitive interactions based on the original product functions

Movie Database   Dec 2020
- Utilized MongoDB for storing movie details and user login information, with Express serving website content.
- Developed dynamic, lightweight web pages using HTML and the Pug template engine to enhance user experiences.
- Conducted comprehensive unit and integration testing with Postman to ensure top-quality code and optimal functionality.

Education

Bachelor of Computer Science Major, Minor in Mathematics, *Carleton University*, *Ottawa*   July 2021