Ryder Wang

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Technical Skills

Languages: C, C++, HTML, CSS, JavaScript, TypeScript, Python, VHDL
Developer Tools: Git, Node.js, MongoDB, DynamoDB, Docker, HubSpot, Bitbucket, AWS Lambda, HubSpot, Localize, VS Code, MS Office Suite, Oscilloscope, Multimeter, STM32, Intel Quartus
Technologies/Frameworks: React, Bootstrap, OpenCV, Discord.py, Beautiful Soup, Rest API,

Experience

Software Analyst | Kambeo **2022**
React, JavaScript, TypeScript, MongoDB, Docker, Localize, HubSpot *New York, NY*

- Identified and resolved 10+ data dump issues, prevented confidential data leaks to the public.
- Documented 75+ critical defects, improved the overall user experience and ensured a bug-free release.
- Facilitated multilingual system for the platform through the use of localized, boosting global presence in Francophone and Hispanophone countries.
- Deployed an automated email system via HubSpot, resulting in a 15% boost in client interactions and client retention rate leveraging external client interactions.

Full-Stack Developer | Mollymawk Software **2022**
React, JavaScript, TypeScript, Rest API, Serverless-Stack, AWS Lambda *Calgary, Alberta*

- Constructed a membership system for the front-end and back-end of the application, utilizing the Serverless-Stack platform and Rest API, allowing the application to have a fully online transaction system.
- Automated a flight log system collection system, allowing the user to access data with filter and sorting functions while keeping operational costs low.
- Utilized Bootstrap to create a tailored UX for current and potential clients, as well as making the ease of use on mobile devices.
- Deployed numerous hotfixes during high operation hours, allowing the users to have a smooth experience.

Projects

Spotify Duplicate Song Remover **2023**
Python, Spotify API, Tkinter

- Leveraged Spotify APIs and Tkinter to build a Python-based tool aimed at discerning and eliminating duplicate tracks within Spotify.
- Engineered algorithms utilizing Spotify's API, combined with Tkinter's graphical interface to create a seamless user experience.

Blinker Puzzle **2022**
C, Python, OpenCV, STM32, Nvidia Jetson

- Developed facial recognition feature to identify if a user has blinked, utilizing it as an input to generate a sequence of keys with 96% accuracy
- Designed a system between the STM32 and the Nvidia Jetson such that it generates random puzzle sequences, and subsequently waits for a response from the user to create a unique method of engagement.

Education

University Of Waterloo **Expected Graduation 2027**
Candidate for Bachelor of Applied Science in Electrical Engineering *Waterloo, Ontario*

- **Relevant courses**: Fundamentals of Programming, Linear Algebra for Engineering, Digital Circuits and Systems