

YANG JI

☎ 416-818-8266

✉ y222ji@uwaterloo.ca

in LinkedIn

🐙 GitHub

SKILLS

Languages: Python, Rust, JavaScript, Typescript, Kotlin, C/C++, HTML/CSS, SQL, Racket, PHP
Frameworks: React, NextJS, Tailwind, Node.js, Express.js, JavaFX, Flask, Pygame, Pytest, JQuery, Jinja, Socket.io
Tools/Technologies: Git, Bash, Linux, Docker, Tauri, GraphQL, AWS, Jenkins, MongoDB, Jira, Confluence, SpringBoot

EXPERIENCE

Software Engineer Intern

January 2024 - April 2024

TribalScale

Toronto, ON

- Developed responsive frontend website components utilizing **React**, **Typescript**, **NextJS**, and **Tailwind CSS**.
- Hosted website on **AWS Amplify**, utilizing **S3 bucket** for content storage, ensuring scalability and optimal performance.
- Leveraged the **Contentful** content management system for seamless content management and **100%** component customizability
- Developed intuitive page templates utilizing **React**, **Tailwind CSS**, and a contentful rich text API, allowing users to preview content in real-time, fostering content creation processes and enhancing user experience.
- Implemented gated content functionality using **HubSpot API** to collect user emails, stored and hashed in local storage, while being security compliant.

Software Engineer Intern

May 2023 - August 2023

Untether AI

Toronto, ON

- Developed, and deployed a comprehensive waveform visualizer GUI from the ground up, combining a robust **Rust** backend (**cargo**, **crates.io**, **FFI**) with a modern **Tauri** frontend (**JavaScript**, **HTML**, **CSS**).
- Designed and implemented **5+** distinct dashboard types, using **JavaScript** class inheritance and abstraction, and **HTML/CSS** elements to enable visualization of various waveform data sets.
- Achieved Seamless **C++API** integration with **Rust** Backend for Cross-Language Functionality
- Implemented **100%** user dashboard customization with **YAML** configuration files and **Serde** Integration

Software Engineer Intern

September 2022 - December 2022

Wind River

Ottawa, ON

- Implemented a dynamic drop down menu using **Jinja HTML**, **Semantic UI**, **Python** and **Flask**, to display **100%** of available release triage information, improving the efficiency of data access for the entire team
- Enhanced backend efficiency by transitioning intricate **Bash** scripts to **Python**, cutting processing time by **50%** and maintaining precision in parsing and updating **XML** files.
- Improved code daily by adding UI elements to **Pytest** reports, updating **Jenkins** jobs, and fixing **Python** scripts for enhanced readability and maintainability.
- Boosted retrieval and storage of **Bash** commands by **50%** through **Python** subprocess, organizing data into a JSON format.

Display Quality Engineer

January 2022 - April 2022

AMD

Markham, ON

- Led weekly regression testing, utilizing a custom algorithm to efficiently identify regression points and assist in resolving issues
- Aided in adhoc smoke tests for urgent customer requests, resolving **100%** of all customer reported issues
- Designed and implemented an automated **Jira API** using **Python** that retrieves tickets and stores the information in a **MongoDB** database, streamlining the data management process and improving efficiency

Full Stack Developer

May 2021 - August 2021

MarketBox Inc.

Toronto, ON

- Implemented an audit system with **HTTP APIs** that tracked **95%** of all actions on the website, improving security
- Utilized **AWS Amplify** and **GraphQL** databases / filters to improve load time of audit logs by **80%**.
- Developed a **JavaScript** CSV generator to parse data from **400+** clients, significantly reducing manual data search times.
- Elevated frontend UX integrating **React**, **Material UI**, and **HTML/CSS**, streamlining site navigation for enhanced usability.

PROJECTS

Notes Application 🗒

- Developed a full stack application to create, delete, search and record notes, utilizing **MVC** and **OOP** concepts in **Kotlin** and **JavaFX**, deployed using an **AWS** database and **SpringBoot** server

EDUCATION

University of Waterloo

Sept 2020 - Expected 2025

Honours Bachelor of Computer Science

- **Courses:** Data Structures, Object-Oriented Software Development, User Interfaces, Application Development, Crypto