YANG JI

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SKILLS

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

EXPERIENCE

Software Engineer Intern   May 2023 - August 2023
Untether AI   *Toronto, ON*

- Developed, and deployed a comprehensive waveform visualizer GUI entirely 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 all available release triage information, improving the efficiency of data access for the entire team
- Modernized backend by migrating complex **Bash** scripts to **Python**, improving efficiency and processing time by **50%** while maintaining accuracy in parsing and updating **XML files**
- Delivered daily code enhancements, including the addition of UI elements to **Pytest** reports, updates to **Jenkins** jobs, and fixes to **Python** scripts, improving readability and maintainability
- Implemented the use of subprocess in **Python** to effectively retrieve output from **Bash** commands and save the results into a structured **JSON** file, enabling efficient data storage and retrieval processes.

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
- Improved load time of audit logs by **80%** using **AWS Amplify** and **GraphQL** databases and filters
- Created a CSV generating feature using **JavaScript** that parses data of **400+** clients, reducing the manual labor of admins searching for the data
- Enhanced frontend UX design with a combination of **React Material UI** and **HTML/CSS**, allowing for easier navigation throughout the site

PROJECTS

QuickChat Application

- Designed a working real time chat room application using **Express**, **React**, **Node.js** and **Socket.io**
- Hosted web server using **Heroku**, **Netlify** and **Git**

ShoppingQ - Def Hacks Hackathon

- Implemented a working database with **SQL** and **PHP** to store employers account information, allowing for account creation and security password hashes.
- Created a front end web page using **JQuery**, **Javascript** and **CSS** that improves the UI/UX for a user

EDUCATION

University of Waterloo   *Expected 2025*
Bachelor of Computer Science

- **Cumulative GPA:** 3.97/4.00
- **Relevant Courses:** Data Structures, Object-Oriented Software Development, User Interfaces, Application Development