

Billie Zhang

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PROFESSIONAL EXPERIENCE

Software Engineer Develop for Good

June - Present

- Translated designs into responsive web applications using **react.js** and **node.js**, ensuring alignment with design intent and ux goals.
- Developed and executed advanced scripts to automate the process of connecting members based on geographic location, mutual interests, and goals, leading to more targeted and effective networking opportunities.

Software Engineer Omniscient Neurotechnology

May - August 2024

- Developed and executed automated test scripts using **Playwright**, reducing manual testing efforts and enhancing test coverage by 68%.
- Integrated automated tests into the **CI/CD** pipeline, ensuring continuous **quality assurance** and quick identification of defects.
- Enhanced **Quicktome's** software quality and reliability as measured by a 30% decrease in bug reports from developers, by implementing comprehensive automated tests using **Playwright** test frameworks.
- Refactored** legacy code to improve readability and maintainability, **reducing technical debt by 20%**.

Full Stack Developer Royal Bank of Canada

September - December 2023

- Designed and integrated **dark mode** in conversational chat bot using **react.js**, **TypeScript**, **CSS**, accommodating diverse user preferences, resulting in **42%** increase in positive feedback
- Implemented intuitive navigation buttons, significantly **reducing navigation times** and **optimizing** user flows for increased engagement.
- Designed and executed UI components using **Figma**, harmonizing aesthetics and functionality for an enhanced user experience, ensuring a seamless balance between design and usability
- Collaborated in cross-functional teams, utilizing **Agile methodologies** and **Jira**, to ensure streamlined project management

Technical Systems Analyst Royal Bank of Canada

January - April 2023

- Processed and expedited over **2000 user access** and permissions requests on **ServiceNow** platform, ensuring swift and accurate access provisioning while maintaining compliance and security standards.
- Trained coworkers on processes and procedures, promoting a culture of **continuous learning** and improvement.

PROJECTS

Seasonal react.js, tailwind CSS, Google CV, OpenAI

- Designed and developed a mobile application that scans fruits to inform about ripeness, seasonality, and recipe selection.
- Trained an AI model using **TeachableMachines** by labeling various fruits, achieving high accuracy in fruit and ripeness recognition.

Personal Portfolio Website react.js, tailwind CSS

- Developed a dynamic personal portfolio using **react.js**, focusing on responsive design for an adaptive user interface
- Employed **tailwind CSS** for efficient and customized styling, creating a user-friendly interface
- Integrated interactive elements to enhance user experience, encouraging seamless navigation and engagement.

EcoThreads react.js, tailwind CSS, Figma

- Designed and built a web app that integrates an interactive **Figma** prototype of a fashion sustainability app
- Website that displays Figma prototype of a sustainability app, created for **HackTheGlobe** hackathon

LEADERSHIP EXPERIENCE

VP Finance Professional Engineers of Ontario Student Conference

January 2024 - Present

- Developed comprehensive budget portfolios and invoices, ensuring precise financial management
- Refined contingency plans to address potential financial challenges and ensure business continuity.
- Worked with each division to ensure that budgets were being met and making adjustments as necessary.

Sponsorships and Finance Director Conference on Diversity in Engineering

January - December 2023

- Secured conference sponsorships through proposal presentations, resulting in **20% increase** in revenue.
- Created invoices for delegates, maintained records of cash flow and follow up with invoice payments.

EDUCATION

University of Waterloo BAsC, Systems Design Engineering

2022 - 2027

SKILLS

LANGUAGES: C/C++, Python, TypeScript, Javascript, Java, HTML, CSS

FRAMEWORKS/LIBRARIES: React.js, Node.js, tailwind CSS, MongoDB, Express.js, Playwright

TECHNOLOGIES: Git, Github, Gitlab, Figma, Jira