

Billie Zhang

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PROFESSIONAL EXPERIENCE

Software Engineer Develop for Good

June - Present

- Translated designs into responsive web applications using **react.js**, ensuring alignment with design intent and ux goals.
- Developed and implemented backend database in **AppWrite** that connects members based on geographic location, mutual interests, and goals, leading to more targeted and effective networking opportunities.

Quality 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.

LEADERSHIP EXPERIENCE

Engineering Manager Develop for Good

June 2024 - Present

- Led client meetings, effectively communicating project updates, and solutions to ensure alignment and address client needs.
- Defined and delegated technical tasks, conducted regular check-ins with members to ensure efficient task allocation and progress.
- Set up and managed the technical environment, including system migrations, while maintaining comprehensive documentation.

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.

EDUCATION

University of Waterloo BSc, 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, AppWrite