

Fangfang Xiao

Software Full-stack Developer | Waterloo, ON | (226) 978-0590 | fangfangxiao.me@gmail.com
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TECHNICAL SKILLS

Front-End | JavaScript, TypeScript, React, Redux, Next.js, Vue, HTML5, CSS3, Sass, TailwindCSS, Bootstrap

Back-End | Node.js, Express, SQL, PostgreSQL, MongoDB, MySQL, Knex.js, Sequelize, Firebase, RESTful API

Testing/Deployment | Jest, React Testing Library, Playwright, Azure, containerization, Docker, Render, Avien

Developer Tools | Agile Methodologies, Git, Github, NPM, Postman, Jira, Scrum, TDD, Github Actions, Linux

SOFTWARE APPLICATION DEVELOPMENT EXPERIENCE

Nextwatch | Full-stack Developer | [Repo Link](#) | [Site](#) | TypeScript, React, SASS, Express, MongoDB, Git 2024

Developed a web application to track users' next to watch lists, showing full-stack development skills

- Designed scalable REST APIs that improved application performance by 40%, using Node.js and Express to handle high volumes of user requests efficiently
- Enhanced system security by implementing robust authentication and authorization mechanisms, resulting in a 50% reduction in unauthorized access attempts, using JWT (JSON Web Tokens) for secure user sessions
- Applied design patterns such as MVC and middleware for clean, reusable, efficient and maintainable code
- Integrated REST APIs to enhance application functionality, leading to a 25% increase in user engagement, by using Axios to efficiently fetch and manage data within the React application

Instock | Full-stack Developer | [Repo Link](#) | [Site](#) | JavaScript, React, SASS, Express, MySQL, Git 2024

Developed a responsive web application managing warehouse inventories

- Accelerated feature delivery by 20% through active participation in daily stand-ups and sprint planning, ensuring seamless collaboration and clear communication within the Agile team
- Built client-side sorting, filtering and searching algorithms of all lists, improved user experience by 30%
- Collaborated with designers to translate UI/UX wireframes into functional code

Brainflix | Frontend Developer | [Repo Link](#) | [Site](#) | JavaScript, React, SASS, Git 2024

Developed a responsive single page applications of a video streaming platform

- Developed a mobile-first web application for with HTML, CSS, JavaScript, React and Sass, ensuring the React application is responsive and accessible across different devices and screen sizes
- Improved user satisfaction by 30% by addressing, fixing and debugging UI issues, utilizing browser and React DevTools to manage state effectively and ensure a smoother user experience

PROFESSIONAL EXPERIENCE

Freelance Full-stack Developer | Waterloo, ON Jun 2024 - Current

- Built responsive and interactive frontend components using Next.js and TailwindCSS, ensuring UI features
- Set up CI/CD pipelines with GitHub Actions and Render Hosting, streamlining the deployment process and reducing release times
- Fostered client customer communication to deliver tailored solutions and understand project requirements
- Implemented unit tests for React components using React Testing Library, achieving 70% test coverage and ensuring component reliability and functionality
- Implemented end-to-end testing frameworks, resulting in a 30% reduction in bug reports, by integrating Playwright into the CI/CD pipeline and creating detailed test cases

EDUCATION

BrainStation | Software Engineering, Diploma 2024

University of Waterloo | Mechanical Engineering Co-op | Bachelors in Applied Science 2012- 2017

- Dean's Honors List, President's Scholarship of Distinction