

MATTHEW ZHANG

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Personal Summary

Software Developer with multiple years of experience specializing in front-end, back-end and software testing. Proven ability to lead website redesigns, including the modernization of a website using Next.js and Tailwind CSS, resulting in a 26% increase in user engagement. Seeking an internship position where I can further hone my skills and contribute to innovative software solutions.

Experience

UHN – Front End Developer – Toronto, ON Sept 2023 - Present

- Spearheaded website redesign using Next.js, Tailwind CSS, JavaScript, and HTML, implementing enhanced UX/UI features and improving load times, boosting user engagement by 26%.
- Implemented integration of multiple REST APIs into application backend for real-time clinical trial data updates, enhancing data accuracy and reducing latency by 30%.

Purolator – Front End Developer – Mississauga, ON Jan 2023 - Apr 2023

- Designed and deployed 15+ landing pages using Drupal, Javascript, Bootstrap, HTML/CSS for marketing campaigns, increasing website traffic by 20% and average session time by 10%.
- Led development and implementation of navigation experiment using JavaScript and Google Analytics, boosting website engagement and SEO performance by 30%.
- Optimized API call functionality for displaying shipping location data, handling over 200,000 calls/month, resulting in reduced latency and improved user experience.
- Leveraged Google Analytics for evaluating web page statistics and developed interactive dashboards driving data-driven decisions for 10,000+ employees.

AlertDriving – Software Engineer – Toronto, ON May 2022 - Aug 2022

- Spearheaded project to reduce the monthly billing cycle process by 70% through the development and implementation of a dashboard generator application utilizing Python, C++, SQL, and Moodle with the engineering team.
- Developed new workflow on Moodle-based platform using PHP and MySQL, enabling instant generation of usage reports for 200+ companies and reducing report generation time by 50%.

OpenText – Quality Assurance Specialist – Waterloo, ON Sept 2021 - Dec 2021

- Implemented automated testing for high-risk modules on enterprise content management platform using Python, Selenium, Pytest and HTML/CSS, improving test efficiency by 80%.
- Eliminated 15+ hours per month of manual work through developing Python scripts to run ad-hoc queries, including selecting specific datasets and sorting/cleansing data.

TRUSTiiN – Junior Test Automation Developer – Waterloo, ON Jan 2021 – Apr 2021

- Developed comprehensive defect tracking database using SQL, enhancing QA testing efficiency and reducing turn-around time by 20%.
- Developed 50+ automation test cases for enterprise-level software products across three key clients using Java, Selenium, JUnit, and Maven, leading to 40% reduction in post-release defects.

Projects

Fitness Social Media Platform | *React, Javascript, NodeJS, Express, MongoDB* Sept 2023

- Independently engineered a responsive social media platform, emphasizing UX/UI enhancements, user authentication, and customizable profiles.
- Implemented a secure and user-friendly image and video upload feature, enabling users to seamlessly share their gym progress with multimedia content while ensuring data privacy and efficient storage.

Event Management Web Application | *React, TypeScript, NodeJS, Express, MongoDB* Jan 2023 - Apr 2023

- Designed a full-stack web application that allows users to create an event and share details with others.
- Developed responsive React pages that displayed event information from REST API using NodeJS.

Technical Skills

Languages: Javascript, Typescript, Python, C++, Java, PHP, HTML, CSS

Technologies/Frameworks: Next.js, React, Node.js, Tailwind, Drupal, Docker, Express, MySQL, Selenium, Git

Education

University of Waterloo Sept 2020 - May 2025

Bachelor of Applied Science, Systems Design Engineering - Excellent Standing

Relevant Courses: Data Structures and Algorithms; Design, Systems, and Society; Human Factors in Design