

Andy Zhen

a3zhen@uwaterloo.ca

 [linkedin.com/in/a3zhen/](https://www.linkedin.com/in/a3zhen/)

(289) 828-8061

Skills

Languages	JavaScript, Python, C++, Java, PHP, SQL, HTML & CSS
Frameworks and Libraries	React, Material UI, NextJS, AWS, Pandas, TestCafé, JavaFX,
Tools	Git, Atlassian Suite, Zsh, Jenkins, Docker, Figma

Experience

ODAIA Intelligence

Full-Stack Developer Co-op

May 2023 – Aug 2023 | Toronto, ON

- Refurbished the project creation flow with a newly-designed UI built using React, virtually eliminating all project creation failures.
- Wrote an **AWS Lambda** function using boto3 in accordance with **REST API** and **hexagonal architecture** principles for a file-delivery service, decreasing deployment times by up to 10 mins per delivery.
- Created a unit testing infrastructure to validate contents of weekly CSV deliverables.

Test Engineering Co-op

Sep 2022 – Dec 2022 | Toronto, ON

- Refactored, maintained, and authored tests for a **TestCafé** automated UI testing suite of 15+ test cases.
- Set-up nightly **Jenkins** pipelines to run end-to-end tests against SAAS app, increasing coverage to 100%.
- Developed a Slack bot using **Bolt SDK** to access Jenkins functionality from within company workspace.

i4i Inc.

Software Quality Analyst

Jan 2022 – Apr 2022 | Toronto, ON

- Logged over 30 issues with a detailed description of erroneous behaviour and testing environment.
- Conducted several types of manual testing, including regression, usability, and sanity testing.

Projects

Personal Developer Portfolio | 2023

- Designed and developed a comprehensive portfolio web-app to display personal projects and information about me with **NextJS**.

LEGO Mindstorms EV3 Number Plotter | 2021

- Developed modular movement functions in **RobotC** to draw numerical characters on a canvas.
- Processed real-time data from 4 LEGO EV3 sensors to control robot.

JavaFX Tetris Clone | 2021

- Created a scoreboard for a Tetris game with 3 game modes using the **JavaFX SDK** and **Scenebuilder**.
- Conducted pre-release testing with a group of 6 testers.

Education

University of Waterloo – Candidate for B. A. Sc. in Mechatronics Engineering, 2B

Apr 2026 | Waterloo, ON

Relevant Coursework: Algorithms and Data Structures (C++), Digital Computation (C, C++), Introduction to Microprocessors and Digital Logic, Mechatronics Engineering, Linear Algebra, Calculus I & II for Engineers

Awards

The Smitty Award – Nelson High School | 2021

McBurl Employee Scholarship Award – McDonald's | 2021

UX Laurier Designathon (1st place) – UX Laurier | 2022