Andy Zhen

a3zhen@uwaterloo.ca   in linkedin.com/in/a3zhen/   (289) 828-8061

Skills

Languages	JavaScript, Python, C++, Java, PHP, HTML & CSS
Frameworks and Libraries	React, Material UI, AWS SDK (for JS & boto3), Pandas, TestCafé, JavaFX
Tools and Technologies	Jenkins, Git, Zsh, Jira, Confluence, Bitbucket, Docker, AWS CLI

Experience

ODAIA Intelligence – Toronto, ON

Full-Stack Developer Co-op | May 2023 – Present

- Developed **AWS Lambda** endpoints and front-end flows for an internal CSV deployment feature.
- Created a testing infrastructure of four initial tests to validate contents of files generated from an AWS step function state machine.

Test Engineering Co-op | Sep 2022 – Dec 2022

- Refactored and maintained **TestCafé (JavaScript)** automated UI testing suite of over 15 test cases.
- Set-up nightly **Jenkins** pipeline builds to run automated tests against SAAS product.
- Developed a Slack Bot using **Bolt SDK** to access Jenkins functionality from within company workspace.
- Authored 5 new tests to cover testing needs identified by QA team.

i4i Inc. – Toronto, ON

Software Quality Analyst | Jan 2022 – Apr 2022

- Logged over 30 issue reports with a detailed description of erroneous behaviour and environment.
- Conducted several types of manual testing, including regression, usability, and sanity testing.
- Assisted the development team in troubleshooting new software builds in real-time.

Projects

LEGO Mindstorms EV3 Number Plotter

2021

- Configured a LEGO Mindstorms EV3 robot to move a permanent marker around a canvas.
- Developed modular movement functions to draw numerical characters in **RobotC**.
- Processed real-time data from 4 EV3 sensors/input methods to control robot.

JavaFX Tetris Clone

2021

- Developed scoreboard features for a Tetris game with 3 game modes using object-oriented programming principles and the **JavaFX SDK**.
- Conducted pre-release testing with a group of 6 testers.

Education

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

Apr 2026 | Waterloo, ON

Relevant Coursework: Algorithms and Data Structures (C++), Digital Computation (C++), 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