

# YUTONG ZHU

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## Education

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### University of Waterloo

Waterloo, ON

Computer Engineering

2022 - 2027

- Courses: Data Structure and Algorithm, Digital Computation, Digital Circuit and Systems, Numerical Methods, Linear Algebra, Calculus

## Skills

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**Programming Languages:** JavaScript/TypeScript, C#, SQL, C++, VHDL

**Web Development:** HTML/CSS, React, Next, Tailwind CSS, Node, Express

**Databases:** MySQL, PostgreSQL, Prisma

**DevOps:** Git, GitHub, GitLab, AWS, Microsoft Azure, Linux

**Automation:** Cypress, Selenium

## Experience

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### Tangam Systems

Waterloo, ON

QA Automation Co-op | *JavaScript, Cypress, SQL*

May 2024 - Aug 2024

- Spearheaded testing efforts for a comprehensive casino management system, ensuring robust system stability through manual testing and automation development.
- Enhanced automation suite efficiency by leveraging SQL over UI, reducing runtime by 20 minutes.
- Managed issues using GitLab, ensuring streamlined defect management and timely resolution.
- Utilized Cypress for efficient and reliable automation testing, enhancing test coverage and defect detection.
- Demonstrated strong multitasking abilities by developing and fixing testing code concurrently.

### AeriaLogic UAV Technology Inc.

Calgary, AB

Software Developer Co-op | *TypeScript, Express, Node, MySQL, React, AWS*

Sep 2023 - Dec 2023

- Designed and developed a SaaS web-based platform for online examination practice using React, Node.js, Express, and MySQL, ensuring user-friendly and efficient testing experience.
- Managed a user base of over 50 paying customers, implementing bug fixes and performance enhancements based on their feedback.
- Developed a React and TypeScript-powered single-page application with 10+ pages, incorporating features such as user account creation, payment, and online examination.
- Deployed scalable full-stack web application on AWS with EC2, RDS, and NGINX for content delivery.
- Engineered automated deployment process using AWS CodeDeploy and GitHub, reducing deployment cycles by 90%.

## Project Experience

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### typescript-eslint

TypeScript

- Implemented bug fixes in typescript-eslint, supporting its user base of 13 million and garnering over 15,000 stars on GitHub.
- Actively responded to inquiries and performed thorough code reviews, fostering collaboration and maintaining high code quality standards.
- Enhanced understanding of TypeScript while contributing to code quality and standards improvement.
- Participated in community discussions and contributed to documentation updates for typescript-eslint, ensuring clarity and accessibility for new contributors and users.

### clever comrade

React, Express, Node.js, GitHub, Auth0

- Developed an AI-powered study tool providing class-specific answers from OneDrive materials, winning the category award at newHacks.
- Built front end using Tailwind CSS and React, delivering fully responsive UI with features like large file uploads and AI interaction within 6 hours.
- Contributed to back end using Node.js and integrated Auth0 for secure authentication and OneDrive connectivity.
- Led cross-functional team of four, responsible for system design, task allocation, and project success within a 24-hour hackathon.