

Ryan (ZhengRui) YU

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Technical Skills

Languages: Python, Java, C, JavaScript, HTML, CSS, SQL, R, C#

Frameworks & Libraries: React, Node.js, FastAPI, Flask, Tailwind, Next.js

Tools & Platforms: Git, Docker, PostgreSQL, SQLite, MongoDB, Cloudflare R2

APIs: Backboard AI, Twelve Labs

Languages (Spoken): English (Native), Mandarin (Conversational), French (Basic)

Projects

HiReady | *Python, Node.js, JavaScript*

Jan 2026

- Built an AI-powered learning analytics platform for video-based training; ranked Top 40 at UofTHacks.
- Implemented a service-oriented backend architecture using Node.js and Flask, integrating external AI services (Twelve Labs, Backboard AI) and MongoDB for analytics and storage.
- Designed privacy-first analytics pipelines using pseudonymized identifiers, aggregated-only insights, and secure video storage via Cloudflare R2 presigned URLs.

Flusher Finder | *React.js, FastAPI, JavaScript, Python*

Oct 2025

- Built and deployed a full-stack restroom-finder web app using React and FastAPI, hosted on Vercel; ranked Top 25 at NewHacks.
- Implemented RESTful FastAPI services with a persistent database backend for user-submitted locations and queries, deployed on Railway.
- Led a 3-person team, managing a shared Git codebase with structured commits and merges.

Personal Website | *JavaScript, React.js, Vite, VS Code*

May 2025

- Built and deployed a responsive portfolio website using React and Vite on Vercel to showcase projects.
- Integrated external libraries and APIs to support a user-initiated email contact form.
- Managed Git-based source control and maintained a clean project structure throughout development.

Moscrop Student Government | *Technology Representative*

Sep 2023 – June 2024

- Maintained and managed schoolwide electronic equipment to support daily operations and events.
- Coordinated technology and logistics for major school events with students and staff.
- Managed budgets and event logistics for schoolwide events including Senior Formal Dance, increasing attendance by 30%.

Experience

Kumon

Mar 2022 – May 2024

5000 Kingsway #230

Burnaby, BC

- Supported 30–50 students per class by grading assignments and assisting with instruction.
- Assisted students during class sessions, reinforcing structured problem-solving across math and reading.
- Maintained an organized instructional workflow to ensure efficient session operations.

Education

University of Toronto St. George

Toronto, ON

BASc, Computer Science & Statistics (ASIP Co-op)

Sep. 2024 - May 2028

- **Relevant Coursework:** Software Design (Csc207), Data Structures & Analysis (Csc263), Probability, Statistics & Data Analysis I (Sta237)