

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)