


# Ricky Tang

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## OBJECTIVE

Aspiring software engineer passionate about full-stack development, AI, and building real-world solutions. Seeking opportunities to learn, grow, and contribute to impactful tech projects.




## EXPERIENCE

- **Brick Works Academy**  Jun 2024 - Jul 2024  
Co-op Camp Counselor Waterloo, Canada
  - Led robotics group for campers aged 9-14, teaching Python-based LEGO programming
  - Guided a team project integrating Python with LEGO chip to build a writing machine robot
  - Organized interactive challenges to boost engagement and teamwork

## EDUCATION

- **University of Waterloo** Sep 2025 - Apr 2030  
Bachelor of Software Engineering - Honours Waterloo, Canada
- **Laurel Heights Secondary School** Graduated Jun 2025  
Ontario Secondary School Diploma Waterloo, Canada
  - Grade: 99.5% | Information & Communications Technology SHSM

## PROJECTS

- **FitSage: AI-Powered Fitness Diary Web App** May 2025 - Present  
Tools: Next.js, Supabase, Gemini API, Tailwind CSS 
  - Built Next.js web app turning unstructured workout diaries into structured fitness data using Gemini AI natural language processing
  - Created intelligent workouts dashboard displaying weekly intensity trends and AI-generated personalized feedback based on recent activity patterns
  - Implemented dynamic workout curation system that suggests 8-12 tailored exercises based on user performance and training gaps
  - Developed responsive UI with Tailwind CSS and integrated real-time data storage via Supabase
- **CheFlow: Interactive Culinary Management System** Jan 2025  
Tools: Processing, G4P (GUI Library) 
  - Built recipe management app that suggests meals based on available ingredients and time constraints, reducing food waste and decision fatigue
  - Developed intelligent matching algorithm to optimize ingredient usage and grocery shopping efficiency
  - Created data visualizations (scatter plots, regressions, heatmaps) for cooking habit analytics
  - Designed interactive GUI with Processing's G4P for recipe entry and meal planning
- **SwiftNotes: Rewarding Encrypted Note App** Nov 2024  
Tools: Processing, G4P (GUI Library) 
  - Led a 3-member team developing secure note-taking app to help users organize ideas effortlessly
  - Engineered password protection and auto-save features ensuring data security and reliability
  - Built tabbed interface with theme/font options for comfortable long-term usage
  - Created writing rewards system to transform productivity into engaging experience

## SKILLS

- **Languages:** C++, Python, JavaScript, TypeScript, Processing, HTML, CSS, LaTeX
- **Tools & Technologies:** React.js, Next.js, Tailwind CSS, shadcn/ui, daisyUI, Node.js, Express.js, Supabase, Git, GitHub, Vercel, Figma, Motion Canvas

## ACHIEVEMENTS

- Canadian Team Mathematics Contest: 3rd Place Nationally (2025)
- Euclid Mathematics Contest: Top 5%, Distinction (2025)
- Canadian Senior Mathematics Contest: Top 2%, Distinction (2024)