

WILLIAM YANG

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SKILLS

- **Programming Languages:** Python, C++, JavaScript, TypeScript
- **Technologies & Frameworks:** HTML, React.js, TailwindCSS, Django, Git, Bootstrap, PocketBase, PyGame, MediaPipe



EXPERIENCE

- **Development Team Member** March 2025 - Present
Digital Flight Dynamics Remote
 - Engineered high-fidelity Airbus A350-1000 aircraft instrument replicas in React.js using custom SVG components
 - Optimized modular component design to enhance reusability and team productivity
 - Used Git and GitHub for pull requests, reviews, and issue tracking in team workflows

PROJECTS

- **Canadian Computing Competition Solutions Repository** September 2024 - Present
React.js, TailwindCSS, PocketBase 
 - Developed the largest repository of CCC solutions serving **2000+** users with **200+** solutions
 - Built a responsive front-end interface using React.js and TailwindCSS for optimal user experience
 - Created Python scripts to automate the scraping and formatting of over **1,000** test cases
 - Implemented user authentication system and community forum using PocketBase
- **SATDuel** July 2024 - October 2024
React.js, Django, SQLite 
 - Developed an interactive platform enabling users to compete on SAT questions in real-time
 - Built responsive user interfaces with React.js following component-based architecture
 - Designed a Django data model to efficiently manage and serve a database of SAT questions

HONORS AND AWARDS

- **Wolfram Award for Best Use of API - IgnitionHacks 2024** August 2024
React.js, Wolfram Alpha API, TensorFlow.js 
 - One of **9** winning projects at IgnitionHacks 2024
 - Developed Mathify, a web application creating video solutions to math problems in the style of 3Blue1Brown
- **Second Place Overall - RecessHacks 4.0** September 2024
Python, OpenAI API, React.js 
 - Won **2nd place** at RecessHacks 4.0
 - Created NoteConvert, an application transforming audio recordings into comprehensive study notes
- **Software Engineering Entrance Scholarship** May 2025
University of Waterloo
 - Awarded to **several outstanding** incoming students in Software Engineering for **exceptional** academic achievement and extracurricular initiative

EXTRACURRICULARS

- **Competitive Programming Tutor** September 2023 - March 2025
MMHS Computer Science Club Markham, Canada
 - Prepared groups of 5-10 students for the Canadian Computing Competition
 - Taught programming concepts in Python, including basic data structures and algorithms
 - Managed meeting minutes, attendance, and performance analytics as a former secretary

EDUCATION

- **University of Waterloo** September 2025 - April 2030
Honours Bachelor of Software Engineering, Co-op Waterloo, Canada