MICHELLE YU

Toronto, ON

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OBJECTIVE

Motivated Computer Engineering student seeking a Summer 2026 co-op or internship in Software Engineering, Systems, Data, Security or AI with a strong foundation in programming, system design and teamwork

EDUCATION

UNIVERSITY OF TORONTO   Toronto, ON
Bachelor of Applied Science (BASc), Computer Engineering + PEY   Sep 2025 - Present
- GPA 3.7
- Intended Minors: Artificial Intelligence Engineering and Business Engineering

DR. GW WILLIAMS SECONDARY SCHOOL   Aurora, ON
Ontario Secondary School Diploma (OSSD), IB, French Merit   Sep 2021 - June 2025
- GPA: 97.8%
- President/Founder of Physics Club, Executive of Equity Council, Senior Member of Code, Debate & Math Clubs
- Jazz Band Saxophonist, Amateur Pianist, School Badminton Team, Certified National Lifeguard & Swim Instructor

EXPERIENCES

AUTONOMOUS SCALE RACING DESIGN TEAM   University of Toronto
Software Engineer & System Analyst   Oct 2025 - Present
- Optimized runtime stability and performance of robotic software modules running on NVIDIA Jetson Orin NX
- Designed more resilient multi-CPU systems, migrate from multithreading to multiprocessing to improve fault tolerance
- Collaborated in cross-functional teams to analyze system-level bottlenecks and improve reliability

PROJECTS & ADDITIONAL EXPERIENCE
Personal Website - Developer, Designer & Quality Analyst   2024 - Present
- Designed and implemented a personal website using React JS, HTML and CSS
- Deployed and maintained a responsive, modern interface showcasing projects and experience

Competitive Programming - Participant   2021 - 2025
- Solved algorithmic problems under time constraints using Python and Java
- Strengthened skills in data structures, algorithms, and problem-solving

SproutHacks - Coder & System Designer   Jan 2025
- Collaborated in a fast-paced team environment to design and implement a functional prototype
- Contributed to system architecture, logic design, and code implementation

Aurora Cultural Centre Volunteer   2021 - 2025
- Adapted teaching strategies to support diverse learning needs, ensuring consistent outcomes across skill levels
- Collaborated with instructors to translate creative goals into clear, structured processes

SKILLS & INTERESTS

Technical Skills:
- **Languages & Programming:** Python, Java, MATLAB, JavaScript, SQL
- **Web & Frontend:** HTML, CSS, React.js
- **Data & Systems:** RDBMS Design, Data Modeling, Data Analysis & Reporting, ETL, RESTful APIs, JSON, XML
- **Tools & Platforms:** Git & GitHub, Postman, Linux & Windows OS, Azure, JIRA, Confluence
- **AI & ML:** Machine Learning fundamentals, GenAI tools
- **Others:** Competitive Programming, Algorithms, Microsoft Office Suite

Soft Skills:
Fast learner, adaptable, and highly organized, strong problem-solving and critical thinking abilities, effective communicator and collaborative team player

Areas of Interest:
Software Engineering · Systems Engineering · Data Engineering & Analytics · Quality Engineering · Cybersecurity · Cloud/DevOps · Business Systems Analysis · AI & Machine Learning