

Tom Zhang

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EDUCATION

Earl Haig Secondary School
Ontario Secondary School Diploma (OSSD)

Toronto, Canada
Sept. 2022 – June. 2026

University of Waterloo
Catalyst for Young Entrepreneurs

Waterloo Region, Ontario
July. 2024 - Aug. 2024

EXPERIENCE

Head of Operations
OrbitView Media

June 2024 – Present

- Establishing partnerships with startups and organizations to coordinate paid events tailored for students and seasoned professionals.

Product Manager
Hackathons Canada

July 2024 – Present

- Part of a group of passionate high school and university students aimed at empowering the hackers of tomorrow, with over **1700+ hackers** empowered already.
- Responsible for overseeing the development and management of Hackathons Canada and managing a team of 30+ active people

PROJECTS

Sentinel Safeguard Network | *Python, Django, LoRaWAN, PyTorch, React Native*

March 2024 – Present

- Developed a neighbourhood safeguard solution
- Uses cutting-edge Internet of Things (IoT) technology and scalable hybrid-cloud infrastructure
- PyTorch used for training
- **Won a bronze medal at Toronto Science Fair 2024**
- Continuing to work alongside neighborhood law enforcement, youth council leaders, and trustees on formal pilot program across the Willowdale community

OmniWave Nexus | *IoT, GenAI, Web3, Blockchain*

July 2024 - Present

- In the process of creating a public speaking and presentation improvement tool
- Working on building a **startup** that sits at the convergence of IoT, web development, AI, blockchain, and professional brilliance. Gained product interest and traction from over a dozen of VCs, business professors, students, and founders
- Researching the novel concept of blockchain and "micropayments" of cryptocurrency in the prompting process of generative AI
- Currently developing groundbreaking features such as AI suggested pauses, hand/body gesture planning, directional gaze planning, and more
- Comes in the form of seamless integration with existing smart glasses (e.g. Apple Vision Pro, Meta Ray Bans, etc), electronic ipad teleprompter/scripter connected via WiFi/bluetooth, or a wearable transparent eye-piece teleprompter

TECHNICAL SKILLS

Languages: Python, Java, JavaScript Arduino, SQL (MySQL), HTML/CSS, R

Frameworks: React, Django, Django Rest Framework

Developer Tools: VS Code, Insomnia (API testing), IntelliJ, DataGrip, MySQL Workbench, Git, GitHub, PyCharm Professional Edition, Arduino IDE, Thonny, SQLite

Libraries: pandas, NumPy, Matplotlib, PyTorch, TensorFlow, MySQLClient, Bootstrap, Chakra UI