

Adam Selim

aselim@uwaterloo.ca | linkedin.com/in/adamzselim | github.com/azselim | adamselim.com

EDUCATION

University of Waterloo

Bachelor of Software Engineering, Specialization in Artificial Intelligence

Waterloo, ON

Sep 2024 – Apr 2029

TECHNICAL SKILLS

Languages & Frameworks: Python, Java, C, C++, JavaScript, TypeScript, HTML, CSS, SQL, React, Node.js, Next.js, TailwindCSS

Tools & Libraries: Git, Github, VS Code, Visual Studio, Jupyter, IntelliJ, Eclipse, Excel, Linux, Unix, Supabase, OpenCV, OpenAI, Google Maps API, Google Sheets API, flask, REST APIs, SQLite, Framer Motion, AWS, Gitlab

EXPERIENCE

AI Strategist / Developer

iSTORM New Media

Sep 2023 – Jan 2024

Kingston, ON (Remote)

- Engineered AI-driven copywriting prompt templates and scripts using **JasperAI** and **GPT-4**, reducing manual content creation effort and increasing blog output by **40%** for client marketing campaigns
- Developed system prompts tailored to brand identity, enabling clients to generate high-converting marketing voices
- Earned **3** Google certifications covering ads search, performance measurement and online analytics

Robot Software Developer

FRC 1360 Orbit Robotics

Sep 2023 – Jun 2024

Oakville, ON

- Improved 2023 robot's scoring mechanism accuracy by **50%** by developing a multi-stage PID tuning system
- Automated alignment with scoring goals using Limelight 3 **computer vision** to recognize key field locations
- Programmed the robot's core functionality using **Java** with WPILib, ensuring robust and efficient performance

Co-President & Co-Founder

EurekaHACKS

Dec 2022 – Jun 2024

Oakville, ON

- Co-founded Halton's largest annual high school hackathon with over **200** participants and **20** major sponsors
- Raised funding, recruited staff and judges, planned events and executed day-of-event logistics
- Automated registration process by building Zapier flows to connect Tally forms to sheets and email services
- Developed authentication bot which verifies students' emails using Discord.py and Google Sheets API via **Python**
- Developed and maintained 2023 sponsorship portal using standard **HTML/CSS and Javascript**

Programming & Electrical Lead

Waterloo EV Challenge School Team

Sep 2022 – Jun 2024

Oakville, ON

- Directed team of 5 software developers to program our EV build's **Raspberry Pi** controller using **Python**
- Structured team's plans, goals and timelines for development over the 6 month challenge periods
- Conducted code reviews to debug issues and optimize performance of throttle control and motor feedback loops
- Designed and wired the electrical system, integrating motor controllers and sensors with a 4-mode dashboard

PROJECTS

No Hooting Around – Winner @DeltaHacks XI | [Github](#) | *Javascript, HTML/CSS, Python, flask* Jan 2025

- Led team to develop a **Chrome extension** to assist students with ADHD by analyzing their current web activity against their preset study goals and intelligently blocking distracting off task content redirecting them back on task
- Built backend server to serve custom prompt OpenAI **RESTful API** endpoints, processing screenshots contrasted to set study goals to determine how off task the user is, gathering additional context from the user when unclear
- Designed and implemented multiple transitions and animations for the product's owl avatar using **CSS/JS**

EasyASL – Winner @Hack the Valley 9 | [Github](#) | *TypeScript, Next.js, Tailwind, OpenAI* Oct 2024

- Led team to develop a web app to enhance ASL learning and certification for the hard-of-hearing community
- Implemented the **first publically available ASL translator** that includes complex motion recognition for comprehensive sign language translation, beyond the basic letters and numbers processed by alternative solutions
- Built backend **APIs in Node.js** using the Picsart Image API and fine-tuned OpenAI models and with training data frames for ASL gesture image processing and grammar correction
- Implemented a certification feature that uses webcam input to assess professional ASL proficiency in real time