

ALEX AUMAIS

aaumais@uwaterloo.ca | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

SKILLS

Languages: Python, C, C++, JavaScript, TypeScript, Scala, Java, C#, Solidity (Ethereum)

Technologies & Frameworks: Flask, GraphQL, Prisma, SQL, Matplotlib, NumPy, Pandas

Platforms & Tools: Google Cloud Platform, Kubernetes, Docker, Git, Jupyter, Metabase, Figma, Postman

EDUCATION

University of Waterloo

2023 - Present

Bachelor of Software Engineering

Waterloo, Canada

- **Overall Average: 96%.** Relevant courses: Data Structures and Algorithms, Statistics, Compilers
- Residence Life Don, VP Events Software Engineering Society, Software and Media Lead Waterloo Rocketry Team, Water Polo

EXPERIENCE

Voiceflow

Software Engineer I

Jan 2025 – Apr 2025

- Developed new agent runtime feature and improved API endpoint design

Developer Advocate and Content Creator for Growth

Mar 2024 – Aug 2024

- **Initiated and led our 2.0 documentation** revamp, improving clarity, organization, and writing new articles, **tripled docs traffic**
- Rapidly developed 5 **GenAI products** and applications in **Python, TypeScript, C#, and React** with Voiceflow's AI APIs
- Independently produced 17 advanced videos demonstrating LLMs, driving high engagement and boosting developer adoption

Hack the North

Backend Lead

Nov 2024 – Present

- Hired and **managed** a team of 4 developers through sprints to build backend projects while coordinating with other team leads

Backend Software Engineer

Mar 2024 – Nov 2024

- **Owned** innovative solutions using GenAI to improve participant experience to answer 91% of questions automatically
- Optimized API performance, increasing performance **90x** by developing new **GraphQL endpoints** in **TypeScript**
- Performed **platform on-call maintenance** using log analysis on **Google Cloud Platform** to diagnose and resolve incidents
- Created **data analysis reports** of event metrics, using Metabase and SQL, helping the logistics team make data-driven decisions

Tech3Lab, HEC Montreal

Human-Computer Interface and UX Research Intern

July 2023 – Sept 2023

- **First author** for an academic paper **submitted to CHI 2024** on the intersection of rehabilitation, **virtual reality**, and UX
- Programmed **data analysis** tools in Python using **matplotlib** and Jupyter Notebooks to uncover trends in participant behaviour

Celeste Community

Broadcast Infrastructure Developer and Event Producer

Jan 2021 – Sept 2023

- Re-wrote 3,700 lines of code in an **object-oriented** manner for a video production stack in **Python**, improving scalability
- Producer and event organizer, raising over **\$40,000** for trans rights charities by putting on **marathon livestream events**
- Designed robust and **crash resistant** code and user flows to reduce production interruptions by **80%**

PROJECTS

ChatGPT Gender Perception Study and Paper | *Python, Pandas, NumPy, Matplotlib*

[Portfolio](#)

- Independently ran a research project to investigate gender biases around ChatGPT, and wrote a research paper sharing findings
- **Analysed 588 respondents'** answers using my own tools made in with **Pandas and NumPy** to unveil correlations in the dataset

Charity Raffle | *Typescript, React, Solidity, Pytest, Heroku*

[Portfolio](#)

- Created a **dynamic single page app** in Typescript with React to interface easily with **Ethereum smart contract**
- Followed **test-driven development** with **100% code coverage** for the backend methods through a Pytest suite

Mentorship Matching | *Python, Jupyter, Numpy, Pandas, Matplotlib*

- Rapidly wrote a **data pipeline** to **optimally match** mentors with mentees from interests with the Hungarian Algorithm

Snowflake (winner of Trophées de la NSI) | *Python, pygame, Git*

[GitHub](#)

- Wrote a **technical project presentation** to pitch our project, and won **1st place** in the French national Trophés de la NSI
- Collaborated with friends to develop a **snowflake simulator** in Python, to teach younger students science interactively