

# Hamza Ammar

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## EDUCATION

### University of Waterloo

Sept 2025 — Expected: April 2030

*Bachelor of Software Engineering (BSe)*

## COURSEWORK

- Machine Learning Specialization - *DeepLearning.ai, Stanford University* August 2025
- Algorithmic Toolbox - *UC San Diego* Jan 2025
- Python for Everybody Specialization - *University of Michigan* July 2020

## SKILLS

- Programming Languages:** Python, C++, React, Swift
- Tools and Technologies:** Next.js, Node.js, AWS, TensorFlow, Scikit-learn, Firebase, NumPy

## EXPERIENCE

### NeoDev League

Waterloo, Ontario

*Founder, Chair*

May 2024 - Present

- Created a non-profit organization with the goal of inspiring students to innovate and collaborate in STEM
- Ran an event for 120 high school students to work on real world problems in a 10 hour time frame
- Created a unique website which would allow for sponsors and interested students to learn more about our event
- Raised over \$8k in sponsorships to run the WRDSB Summit in October 2024

### Kuzu Inc

Waterloo, Ontario

*Software Intern*

June 2024 - August 2024

- Improved the main CLI for Kuzu DB's shell extensions to help users understand their queries
- Fixed issues with the Kuzu Shell, aimed at improving the user experience
- Made 36 contributions to the Kuzu repository

### MapFLOW

Waterloo, Ontario

*Data Manager*

November 2022 - March 2024

- Created 10+ JSON files bringing together medical research from multiple sources to be used in an app that helps pharmacists diagnose patients
- Created a CLI tool to translate said files to other languages, notably French, using Open AI's API

### YMCA Of Three Rivers

Waterloo, Ontario

*Instructor/Lifeguard*

September 2023 - August 2024

- Educated 100+ young swimmers of all levels and helped them improve technique and confidence, while having fun in the water
- Ensured safety and security on the pool deck by checking chlorine levels in the pool and scanning the water for anyone that may need help.

### Engineering Science Quest

Waterloo, Ontario

*High School Leader*

June 2023 - August 2023

- Taught elementary school kids the basics of STEM in a fun and interactive way, while keeping an eye out for any problems or issues in the camp.
- Helped mentor volunteers looking to pursue a bigger role within Engineering Science Quest.

### 2702 Rebels

Waterloo, Ontario

*Member*

October 2022 – September 2024

- Made Prototypes, Designed and Built a robot to compete in the FIRST robotics challenge in 3 months, which was able to compete in two regional events and a provincial competition, even being invited to the world championship stage
- Used a number of connections to bring together a list of 1000+ sponsors to raise money for our team

## PROJECTS

### Flourishing Realty

August 2025

- Created webpage for tenants to rent available properties on the Flourishing Realty website
- Worked with Next.js, Node.js and AWS to create a reactive site

### SahilGo

July 2025 - Present

- Creating an app for beach "Sahil" communities to organize games and bring the community together
- Used Swift and Firebase to create a "Senior Assassin" like game for the communities to play

### UniMap

*Project Link:* <https://github.com/hamzakammar/UniMap>

June 2022

- Creating a mapping system for university students to never get lost on campus again
- Worked with numerous tools to import blueprints and create a map out of it