

Ali Rahbar

Software Developer Intern

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[Ali Rahbar | GitHub](#)

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[📍 Toronto, ON](#)

[🔗 Ali Rahbar | LinkedIn](#)

Professional Experience

Student Research Intern

University of Toronto

[📅](#) May 2024 – Current [📍](#) Toronto, ON

- Restructured course content by implementing Generative AI tools and GPTs to enrich students' learning experience.

Java/Python Developer Intern

IEMS Solutions

[📅](#) July 2023 – Sept 2023 [📍](#) Waterloo, ON

- Developed a user-friendly test bed platform, enhancing developer productivity.
- Automated data collection with Java and implemented a cloud-based MongoDB database, ensuring data consistency and reliability.
- Developed Python APIs using Flask, TensorFlow, and PostgreSQL to streamline back-end ML processes, significantly enhancing performance.

Casual Part-Timer

University of Waterloo Food Services

[📅](#) Sept 2022 – Aug 2023 [📍](#) Waterloo, ON

- Honed time management and prioritization skills, adeptly juggling multiple tasks and consistently meeting deadlines.
- Enhanced teamwork and communication skills by actively collaborating with colleagues to optimize daily operations.

Projects

My-Teaching-Assistant

[📅](#) April 2024 – Current

[🔗 my-ta.ca](#)

- Engineered a Full stack application using Python Flask, SQLAlchemy and React, ensuring robust and scalable service architecture.
- Dockerized and deployed the project on a Microsoft Azure web apps, making the service accessible on the open web.
- Migrated system to use OpenAI's beta API's for LLM models, improving systems efficiency by up to 50 percent.

Feed Forward Neural Network Library

[📅](#) May 2024 – April 2024

[🔗 link](#)

- Developed a Deep Learning library in Python with ML algorithms like Adam and SGD, supporting customizable neural network architectures.
- Ensured reliable execution through error-handling and extensive testing.

Chessy Chess App

[📅](#) March 2024 – May 2024

[🔗 link](#)

- Created a Python-based chess engine and AI bot using advanced algorithms and efficient data structures.

UNICEF Conflict Escalation Analysis

[📅](#) Nov 2023 – Dec 2023

[🔗 link](#)

- Developed a regression model with Pandas and NumPy to predict inaccuracies in AI models and presented findings to UNICEF Canada.

Cool Stuff...

- I have a **Lifeguard and water safety training** Certificate!
- Helped my CS teacher in high school to **teach the grade 11 CS** class!

Education

BSc Computer Science

University of Toronto

[📅](#) Sept 2023 – Current

GPA: 3.47

Skills

Programming

Python, Java, C, HTML, CSS, JavaScript, SQL

Frameworks

Flask, Django, Pandas, NumPy, TensorFlow

Databases & Servers

MySQL, MongoDB, Postgres, Azure

Deployment

Git, Linux, Docker, LaTeX, DevOps

Volunteering

SMRC Treasurer

University of St. Michael's College

[📅](#) May 2024– Current

- Managing a budget of approximately \$30,000 for the council of 2024-2025

Part-Time Tutor

Compass Tutoring

[📅](#) March 2021 – Sept 2023

- Tutored Python and Math to a group of Ukrainian students displaced by conflict.

Research Safety Assistant

University of Waterloo

[📅](#) July 2022 – Sept 2022

- Volunteered in a physics laser lab, assisting professor and research students with their experiments by ensuring adherence to all safety protocols.

Publications

TOI-1516 Photometry

The Royal Astronomical Society

[📅](#) Nov 2023 – Dec 2023

[🔗 link](#)

- Confirmed the existence of a candidate exoplanet, direct involvement in the calculations that proved its existence.