

# Haya Mahmoud

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## Skills

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**Languages:** C, Python, JavaScript, Java, HTML/CSS

**Libraries/Frameworks:** Node.js, React, Libc, Matplotlib, Pandas, Seaborn, P5.js, Java Graphics2D

**Developer Tools:** Google Cloud Platform (GCP), Git, Bash, Valgrind, VS Code

**Relevant Skills:** Data Structures, Algorithms, Object Oriented Programming, Agile Methodologies, Communication

## Education

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**Bachelor of Computing, Software Engineering (Co-op)**

Sept 2024 – Present

University of Guelph

- Area of Emphasis: Artificial Intelligence

## Projects

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**ShelterMap Toronto – Sheridan Datathon 2025**

Nov 2025

Python, Next.js, Leaflet, Google Cloud

github.com/hayamahmoudd/Datathon2025

- Built a full stack web app in a 24-hour hackathon that cleaned and joined Toronto homelessness datasets, then mapped high pressure areas so city planners can quickly spot high priority neighbourhoods for new shelter placement.
- Used **Google Cloud** to power the data pipeline and deployment, and our project was nominated for Best Use of Cloud.

**Statistics Canada Job Vacancy Analysis**

Mar 2025 - Apr 2025

Python, Git, Seaborn

- Built a Python analysis tool with a team of three to clean and explore **219,912** Statistics Canada job-vacancy records across **33 quarters**, **14 regions**, and **119 industries**, generating clear trend insights that highlight how vacancies change over time and differ by industry and region.

**AI-Powered Career Finder App**

Jul 2025 - Aug 2025

HTML/CSS, JavaScript, Node.js, Google Gemini API

github.com/hayamahmoudd/CareerFinderAI

- Developed a career exploration web app that utilizes the **Gemini 3 API**.
- Implemented AI model rules to provide concise responses and generate only **2–3** relevant career paths based on user interests.

**Recipe Generator**

Nov 2024 - Dec 2024

HTML/CSS, JavaScript, Node.js, Spoonacular API

github.com/hayamahmoudd/RecipeGenerator

- Developed a full stack web application using **Express.js** backend that generates recipes from user provided ingredients.
- Integrated the Spoonacular Food API to retrieve relevant recipes and support up to **100** results per request.

**Pengy Float Java Game**

Nov 2023 - Jan 2024

Java, Graphics2D, NetBeans

- Led a team of two to design and develop a unique 2D game in Java using **Graphics2D**.
- Applied **object oriented** concepts and **agile methodologies** throughout development in order to create a scalable design.

## Work Experience

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**Server/Shift Leader**

Guelph, ON

Sleeman Centre

Oct 2022 – Present

- Serve **100+** customers per shift in a fast-paced concessions environment.
- Promoted to shift leader, responsible for opening/closing operations and supervising **2–3** servers.

**Math/Science Tutor**

Guelph, ON

Centennial CVI

Sept 2023 – June 2024

- Tutored Grade 9–12 Math/Science (Advanced Functions, Data Management, Biology, Chemistry, Optics).
- Enhanced communication and problem-solving skills by tailoring instruction for diverse students.

## Awards & Achievements

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**University of Guelph's CEPS Dean's Honours List (3x)**

Sep 2024 - Dec 2025

- Recognizes students with an average of **80%+** per semester.

**University of Guelph's Entrance Scholarship**

June 2024

- **\$1000** awarded to incoming students with an admission average of **90%+**.

**NCWIT Aspirations in Computing Award**

Apr 2024

- Awarded for excellence in CS, leadership, and extracurriculars in computing.