

# Ossama Elhelali

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## EDUCATION

### University of Waterloo - Recipient of president's scholarship

Candidate for Bachelor of Computer Science

Waterloo, ON

Sep 2022 – Present

- Relevant coursework: Object-Oriented Software Development, Algorithm Design and Data Abstraction, Tools and Techniques for Software Development.

### Wilfrid Laurier University

Candidate for Bachelor of Business Administration

Waterloo, ON

Sep 2022 – Present

## AWARDS

### 1st place - [Microsoft's](#) 2023 Green-a-thon - *PowerBi, Power Automate, Digital Twins, Azure HSM*

- Developed a construction materials marketplace to reduce waste and promote sustainability.

### 1st place - Seeds of Leadership's 2023 [AI Summit](#) - *Python, ChatGPT's API*

- Designed an AI-driven web-scraping tool to automate grant discovery and applications for SmileCanada (NGO).

## EXPERIENCE

### Software Engineer

IIC Uwaterloo – *Typescript, Next.JS, Vercel*

Waterloo, ON

May 2024 - **Present**

- Member of the **backend team** developing a **new AI tool**.
- Developed an **automated email system** for book checkouts and tracking.

### Full Stack Developer Intern

Kenna Technologies – *Typescript, React, SQL, Node, Express, AWS*

Mississauga, ON

Jan 2024 - April 2024

- **Led the migration** from Lotus Notes, HTML, and CSS to a full-stack Typescript, React, Node, and SQL service.
- Reduced API calls by **87.5%** by merging 8 calls into 1.
- Created SQL backend and middleware agents to represent data in a visually appealing format on the frontend.

### Software Engineer

Coach Chihab Group – *Vue.JS, Firebase*

Burlington, ON

Aug 2023 – Dec 2023

- Implemented a Vue.JS-based check-in platform, **cutting check-in time by 95%** and managing over 50 attendees.
- Utilized Firebase Real-time Database API for dynamic attendee check-in monitoring and visualization.
- Analyzed and **compiled a dataset of 5+ LMSs** based on attendee profiles.

### Software Engineer Intern

MuslimDo - *Vue.JS, PHP, RESTful APIs*

Burlington, ON

May 2023 - Aug 2023

- Designed and optimized CRUD operations with Vue.JS, **reducing API overhead by 34%**.
- Co-developed the company's website using PHP, enhancing user experience for over **10k users**.
- Streamlined the signup process, **reducing drop-off rates by 12%** through efficient data collection.

## PROJECTS

### [NeighBoard](#) - *JavaScript, Vue.JS, Firebase, PlacesAPI*

- A Vue.JS fullstack community platform for sharing neighbourhood activities and reports.
- Implemented PlacesAPI, **reducing address entry time by 41.25%** in preliminary tests.



### [LeetCode Hints](#) - *JavaScript, Node.JS, Express.JS*

- Developed an AI-assisted tool for on demand hints and solutions to LeetCode challenges.
- Implemented server-side logic using **Express.JS and Node.JS**, boosting application's reliability.



### [Chess](#) - *C++, Bash, XQuartz*

- Led development of a **full chess game** to a grade of **104.3%**, demonstrating project management and technical skills.
- **Created 4 distinct AI algorithms** for computer opponents, enhancing gameplay depth and user engagement.

### [Sortify.AI](#) - *JavaScript, React Native, TensorFlow (DeerHacks 2023)*

- Created an **ML-powered** app for **real-time waste sorting**, featured at UTM's 2023 DeerHacks Hackathon.
- Compiled and leveraged a dataset of **22,000+** images to train a high-accuracy **ML model** for waste identification.
- Seamlessly integrated **TensorFlow and React Native** for efficient performance and **cross-platform** compatibility.



## TECHNICAL SKILLS

- **Languages:** Python, JavaScript, TypeScript, C++, C, PHP, HTML, CSS
- **Frameworks:** Next. JS, React.JS, Vue. JS, Node. JS, Express. JS, React Native, Laravel, TensorFlow
- **Developer Tools:** Docker, Kubernetes, Git, GitHub, Linux, Firebase, Jira, Agile, Scrum, Figma, Google's Teachable Machine