

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:

Elementary Algorithm Design and Data Abstraction (C), Object Oriented Software Development (C++), Intro to optimization.

Wilfrid Laurier University

Candidate for Bachelor of Business Administration

Waterloo, ON

Sep 2022 - Present

EXPERIENCE

Backend Engineer Intern

MedSender - Ruby on Rails, Python Scripting, Kubernetes, Docker, React.JS

New York City, NY

Jan 2025- Present

- **Reduced developer onboarding time by 90%** by Dockerizing the web app and integrating SQL, Redis, and ELK.
- Implemented a **scalable number lookup service** with RESTful APIs and robust error handling.
- **Optimized a 2FA service** with enhanced authentication protocols for secure user onboarding.

Software Engineer

IIC UWaterloo - Typescript, Next.JS

Waterloo, ON

May 2024 - August 2024

- **Improved search performance by 20%** through implementing dynamic filters and optimizing database sanitation.
- **Cut email manual errors by 30%** through automated email workflows using Google App Script.
- **Developed multiple sponsor pages** that curated to each clients' highlights and benefits.

Fullstack Developer Intern

Kenna Technologies - Typescript, React.JS, SQL, Node.JS, Express.JS, AWS

Mississauga, ON

Jan 2024 - April 2024

- **Led the migration of a full-stack service** from Lotus Notes and HTML to Typescript, React, Node, and SQL.
- **Reduced API overhead by 87.5%** through deep analysis of workflows and callbacks, improving overall performance.
- 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

Sep 2023 - Dec 2023

- Built a check-in platform that **reduced guest check-in time by 95%** and managed over 50 attendees.
- Utilized Firebase Real-time Database API for **dynamic attendee check-in monitoring** and visualization.

Software Engineer Intern

MD - Vue.JS, PHP

Burlington, ON

May 2023 - Aug 2023

- **Reduced API overhead by 34%** through payload size reduction and lazy loading implementation.
- **Cut drop-off rates by 12%** by streamlining the signup and data collection process.

PROJECTS

LinkedPin - Java, Spring Boot, PostgreSQL, Amazon RDS, OpenAI's API, React.JS

- An AI-powered Chrome extension that summarizes and automates reminders for saved LinkedIn posts.



Sortify.AI - JavaScript, React Native, TensorFlow (DeerHacks 2023)

- An ML-powered app for **real-time waste sorting**, featured at UTM's 2023 DeerHacks Hackathon.



NeighBoard - Express.JS, Vue.JS, Firebase, PlacesAPI

- A Vue.JS fullstack community platform for sharing neighbourhood activities and reports.



AWARDS

1st place - Microsoft's 2023 Green-a-thon - Python, 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, OpenAI's API

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

TECHNICAL SKILLS

Languages: C++, C, Python, JavaScript, TypeScript, PHP, HTML, CSS

Frameworks: TensorFlow, OpenCV, Keras, Next.JS, React.JS, Vue.JS, Node.JS, Express.JS, React Native, Laravel, Grafana

Developer Tools: Docker, Kubernetes, Google's Teachable Machine, Git, GitHub, Linux, Firebase, Jira, Agile, Scrum, Figma