Ossama Elhelali

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EDUCATION

University of Waterloo - *Recipient of president's scholarship*   Waterloo, ON
Candidate for Bachelor of Computer Science   Sep 2022 – Present
- Relevant coursework: Object-Oriented Software Development, Algorithm Design and Data Abstraction, Tools and Techniques for Software Development.

Wilfrid Laurier University   Waterloo, ON
Candidate for Bachelor of Business Administration   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   Waterloo, ON
IIC Uwaterloo – *Typescript, Next.JS, Vercel*   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   Mississauga, ON
Kenna Technologies – *Typescript, React, SQL, Node, Express, AWS*   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   Burlington, ON
Coach Chihab Group – *Vue.JS, Firebase*   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   Burlington, ON
MuslimDo - *Vue.JS, PHP, RESTful APIs*   _ - 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