

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 – May 2027

- 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 – May 2027

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, C++, C, PHP, HTML, CSS
- **Frameworks:** TensorFlow, Vue.js, React.js, Node.js, Express.js, React Native, Bootstrap, Laravel
- **Developer Tools:** Git, GitHub, Linux, Firebase, Jira, Agile/Scrum, RESTful APIs, Google's Teachable Machine

EXPERIENCE

Full Stack Developer

Kenna – *React.js, Node.js, Express.js, SQL*

Mississauga, ON

Jan 2024 - Present

- Reduced API calls by **87.5%**, merging 8 into 1, for major performance gains.
- Achieved **100% WCAG** compliance by correcting 15+ accessibility errors.
- Implemented modifications to product profiles, campaign sites and secure services using jQuery and LotusNotes.
- Created SQL backend and middleware agent to represent the data in a visually appealing format on the frontend.

Software Engineer

Coach Chihab Group – *Vue.js, Firebase*

Burlington, ON

Aug 2023 – Dec 2023

- Engineered a Vue.js-based check-in platform, **reducing check-in time by 95%**
- Utilized Firebase's **Real-time Database** API for dynamic monitoring and **visualization of attendee check-in** metrics.
- Analyzed and **compiled a dataset of 5+ LMSs** according to attendees' profiles.

Software Engineer

MuslimDo - *Vue.js, PHP*

Burlington, ON

May 2023 – Aug 2023

- Designed and optimized CRUD operations with Vue.js, **reducing API overhead by 34%**.
- Co-led the development of company's **website using PHP**, enhancing user experience for over 10k users.
- Optimized signup by collecting less upfront info, **reducing drop-off by 12%**.

PROJECTS

NeighBoard - *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.
- **Devised a post grouping system** based on neighbourhoods or cities, recognized via Google Places API.



LeetCode Hints - *HTML, CSS, Node.js, Express.js*

- 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.



Sortify.AI - *JavaScript, React Native, TensorFlow*

- 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.



Chess - *C++, Bash*

- Led **full chess game** development 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.
- Wrote a comprehensive **11-page game and development documentation**, facilitating knowledge transfer.

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).