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 – May 2027
  - 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 – 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, Figma, Google's Teachable Machine

EXPERIENCE

Full Stack Developer Intern   Mississauga, ON
Kenna Technologies – Typescript, React, Redux, SQL, Node, Express   Jan 2024 - April 2024
- Reduced API calls by **87.5%**, merging 8 into 1, for major performance gains.
- **Led** Migration of a full service from Lotus Notes, HTML, and CSS over to Typescript, React, Node, and SQL.
- **Created** SQL backend and middleware agents to represent data in a visually appealing format on the frontend.

Technical Lead   Burlington, ON
Coach Chihab Group -   Aug 2023 - Present
- Engineered a Vue.JS-based check-in platform, **reducing check-in time by 95%** and processing **over 50 attendees**.
- 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   Burlington, ON
MuslimDo - *Vue.JS, PHP, RESTful APIs*   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 - *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.
- **Devised a post grouping system** based on neighbourhoods or cities, recognized via Google Places API.

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.

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.

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.
- 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).