Hamza Bouzoubaa

✉ hamza.bouzoubaa@hotmail.com   **in** hamza-bouzoubaa   ⌗ Hamza-Bouzoubaa

Education

University of Ottawa *BASc in Software Engineering*   *Sept 2021 – May 2025*
- CGPA: 3.7 - Dean's List

Experience

Data Analyst Intern   *Ottawa, Ontario*
Minto Group   *May 2024 – Now*
- Developed a **3 page Python** Streamlit dashboard to display more than **23 visuals**, aiding in decision-making.
- Engineered an automated data scraping system for **10+ sources** such as StatsCan, Rentals.ca, and CMHC, increasing data collection efficiency by **500%**.
- Built an efficient **ETL** pipeline using **Ubuntu Cron** that runs daily, ensuring availability of the latest data.
- Deployed the dashboard on **Azure Virtual Machine**, integrating **CI/CD** for automatic updates, thereby enhancing the reliability and accessibility of the platform.
- **Demoed** the dashboard to Minto's **CEO**, **CFO** and **executives**.

Student Ambassador   *Ottawa, Ontario*
Microsoft   *July 2023 - Now*
- Organized and led **3** workshops with **40+** students each, providing live presentations, code development, and project documentation. Achieved the **Alpha** Milestone.

Software Developer Intern   *Montréal, Quebec*
Levio   *Sept 2023 – Dec 2023*
- Developed an **AI** resume scoring system using **TF-IDF** and **Embeddings**, reducing resume review time by **300%**.
- Engineered a script for generating interview summaries, reducing candidate selection time by **50%**.
- Trained a **spaCy NER model** for precise information extraction from job posts, achieving an accuracy of **95%**.
- Integrated the resume scoring and interview summary features into the Greenhouse ATS via **API**.

Product Management Intern   *Ottawa, Ontario*
Ribbon Communications   *Jan 2023 – May 2023*
- Conducted a **Salesforce** comprehensive research on **100+** products, evaluating their cost structures and profit margins, leading to the discovery of low or negative margins on certain products.
- Collaborated on a report that influenced management's decision to revise prices on **3** products.
- Built and organized a new centralized database, consolidating data from **4** previous databases, improving the company's data accessibility and management.

ServiceNow Developer Intern   *Remote*
DXC Technology   *May 2022 – Aug 2022*
- **Developed a user-centric ServiceNow application using JavaScript:**
  - Designed an intuitive, fast, and user-friendly interface for seamless navigation
  - Integrated a robust request-handling system to streamline operations and improve efficiency
  - Implemented a mechanism for managing urgent and exceptional requests with priority handling
  - Ensured process consistency by aligning internal actions and stakeholder interactions at the business level
  - Developed reliable reporting capabilities to measure and optimize demand management performance

Projects

Capstone
- Enables the generation of fine-tuned, company-specific **LLM** models, answering user queries. Web crawling for data indexing on **Azure CosmosDB**, search optimization via **TF-IDF** and **embeddings** using **Azure SQL** database, and **API** deployment using **FastAPI**. Successfully deployed a Uottawa.ca model, incorporating over **15k** web pages.

Skills

- **Technical Skills:** Python, Java, Go, C++, Bash , Linux, Ubuntu, Flask, Django, Scikit-Learn, Keras
- **Tools:** Git, Docker, NoSQL, SQL, GRAPHQL, Postgres, Azure, VM, Jira ,Azure DevOps
- **Languages:** English (Bilingual), French (Native), Arabic (Native)