IBRAHIM BOULAHCHICHE

LinkedIn | +1-438-528-9978| ibrahim.boulahchiche@polymtl.ca | GitHub

Skills

- Java | JavaScript | TypeScript | C++ | Python | MongoDB | SQL | Node | Express | Angular | Git | React | Figma | Assembly x86 | Enterprise Architect | PostgreSQL | Visual Basic Application | HTML5 | Microsoft Office | CSS | Apache JMeter | JProfiler | GitLab | NodeJs | GO | Gatsby| Jira | Confluence API | C# | Kubernetes.
- Pytest | Data Structures & Algorithms.

Experiences

Full Stack Intern   *HelloDarwin Montreal, QC CA,*   **08/2023 – 12/2023**

- Creation of **multiple scripts** to multiple use: Migration of data, adding new files to an AWS container (S3 Bucket AWS) and updating the file in AWS, etc.

- Developed an exportable widget deployed on **50+ websites**, enhancing client page interactivity (React, TypeScript and with a Golang server). Added tracking to collect users' data based on the website usage and the widget usage (**Google analytics**).
- Refactored a Gatsby application, resulting in a **30% improvement in website loading speed** and a complete redesign of the website interface to enhance user experience (Gatsby, JavaScript, TypeScript, GraphQL).
- Optimized a PostgreSQL database by reorganizing tables and improving indexing, reducing **query execution times by 20%.** (PostgreSQL, Golang server, DBeaver and AWS Lamda.).

Software Developer Intern   *Croesus Finansoft Laval, QC CA,*   **05/2024 – 08/2024**

- Refactoring of data migration scripts (in Perl and Python) to allow database migration in Postgresql, Sybase and Babelfish, **reducing critical errors by 15%.**
- Modernized server code, enhancing multi-platform compatibility with Sybase, Postgresql and Babelfish, **increasing system stability by 25%.**
- Optimized complexe SQL queries, reducing average data processing times by **30%** for large datasets.

Artificial Intelligence Engineer Intern   *Loto-Québec Montreal, QC CA,*   **08/2024 – 12/2024**

- Automated video transcription processes using **AWS Lambda** functions and **AWS Transcribe** services.

- Employed **LLAMA** to analyze video transcripts, highlighting key terms and insights.

- Built and deployed a **Python FastAPI server** on an **EC2 instance** to process and send information to a Confluence page for documentation using **Confluence API**.

- Implemented automatic translation of PowerPoint presentations between French and English using **Amazon Translate** and **Python libraries** without changing the format of the PowerPoint

Education

Bachelor of Engineering   **Polytechnique Montréal**   *Montréal, QC, CA*   **2020 – 2024**

- Major in Software Engineering

Projects

- **Android application software project (Winter 2024):**
    - Design, development, and validation of an Android application.
    - Expanded upon the web application from Winter 2023 by integrating an Android app using Dart, Flutter, and Android.
    - Applied key technical concepts including cross-platform mobile development, user interface design, object-oriented programming, and software testing. Followed agile methodologies, code review practices, and continuous integration principles.

- **Web application software project (Winter 2023):**
    - Design, production, validation, and testing of a Web application (Angular,Typescript, html, css and MongoDB for the database).
    - Integrated technical concepts: basic notions of computer graphics, user interfaces, data structures and algorithms, object-oriented programming, design patterns, code review, continuous integration, software testing and agile approach.

- **Embedded system robot (Winter 2022):** Created a 4-wheel embedded system robot and programmed a microcontroller:
    - Design considering the basic technical concepts of the disciplines of computer engineering and software engineering.
    - Identify basic concepts of sustainable development, particularly those related to the use of rare substances in electronic parts.
    - Demonstrate an ability to function effectively as a member or leader of a work team.
    - Use basic software development tools: Makefile, software and warehouse libraries (Git).