

IBRAHIM BOULAHCHICHE

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Skills

• Java | TypeScript | C++ | Python | MongoDB | SQL | Express | Angular | Git | React | Figma | Docker | PostgreSQL | HTML5 | CSS | Apache JMeter | JProfiler | GitLab | NodeJs | Go | Gatsby | C# | Kubernetes | PHP | Java Spring boot | DBever | GraphQL | Cloud | AWS.

Experiences

Full Stack Intern

HelloDarwin Montreal, QC CA, 08/2023 – 12/2023

- Implemented new features in an existing **Go** server to support the integration of a widget, automation scripts, and application optimization in **Gatsby**.
- Developed an exportable **React/TypeScript** widget, deployed on **50+** client sites, connected to the **Go** server, and instrumented with Google Analytics to collect usage data.
- Redesigned a **Gatsby** application (UX/UI + **Go** server adjustments + **GraphQL** optimization), reducing loading times by **25%** and improving user experience.
- Optimized a **PostgreSQL** database (table reorganization + indexing), reducing query execution times by **20%**.

Software Developer Intern

Croesus Finansoft Laval, QC CA, 05/2024 – 08/2024

- Modified and adapted data migration scripts (**Perl/Python**) for compatibility with **PostgreSQL**, **Sybase**, and **Babelfish**, reducing critical errors by **15%**.
- Modernized C# server code, improving cross-platform compatibility with **Sybase**, **PostgreSQL** and **Babelfish**, increasing system stability by **25%**.
- Optimized complexe SQL queries, reducing average data processing times by **20%** for large datasets.

Artificial Intelligence Engineer Intern

Loto-Québec Montreal, QC CA, 08/2024 – 12/2024

- Automated video transcription processes using **AWS Lambda** and **AWS Transcribe** services.
- Leveraged **LLAMA** to analyze and summarize transcriptions, highlighting key terms and main ideas to improve internal search.
- Developed a **FastAPI** server and deployed it on an **EC2** instance to process and send information to a Confluence page via the **Confluence API**.
- Built an automatic PowerPoint translation tool (FR ↔ EN) using **Amazon Translate** + **Python**, fully preserving the original formatting.

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.s
- **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).