

ADAM HALIM

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Skills

- Java | Python | JavaScript | TypeScript | C++ | C | MongoDB | Firebase | NoSQL | SQL | Node | Express | Angular | Flutter | Dart | Git
- JUnit | Jasmine | Jenkins | Mocha | Pytest | OOP | Data Structures & Algorithms | Docker | CI/CD | Kubernetes | Terraform | Ansible | AWS
- Frontend | Backend | Full-Stack | Android | DevOps | DevSecOps | Agile | English, French – *All professional proficiency or above*

Experience

Technology Analyst Intern

Morgan Stanley

Montreal, QC, CA 05/2023 – 08/2023

- Led the rebuilding initiative of an existing Lightstreamer-based web application using Angular, addressing hygiene issues and improving functionality successfully completed in **3 months**.
- Developed independently **100%** of this pivotal Angular-based application, complementing a Lightstreamer service that efficiently streams FX and stock data to support **13,000 concurrent sessions**.
- Ensured the code quality of this application, which, accessed over **400,000 times** in **3 months**, serves a dual purpose: A critical tool for testing and verifying the connection to the Lightstreamer server and serves as an exemplary template app for clients.
- Analyzed the existing app's architecture and codebase to identify areas for improvement, resulting in a projected **30% reduction** in overall code complexity by improving code modularity while keeping the same features.

Lab Lecturer

Polytechnique Montreal

Montreal, QC, CA 09/2022 – 05/2023

- Collaborated in developing laboratory assignments for the Testing Methodologies and Software Validation class (LOG3430), where students actively engaged in testing Python projects using a range of testing tools, including Pytest.
- Delivered lectures on fundamental software testing principles, including topics such as test coverage, mutation testing, fuzz testing, and load/performance testing, to a class of **70+ students** spanning a **15-week period**.
- Guided and addressed student questions regarding their lab assignments, and corrected **hundreds of lab reports**.

Full Stack Developer Intern

Anuvu (Global Eagle)

Montreal, QC, CA 05/2022 - 08/2022

- Developed and maintained over **3 websites** for airline companies with **millions of passengers** boarding every year using Angular, TypeScript, and Node.js in a Linux environment.
- Themed onboard entertainment websites using LESS, achieving an impressive **98%** accuracy to the provided designs.
- Accelerated the development of a client's website by theming **50% of its components**, resulting in the website's completion in approximately **4 months**.
- Refactored legacy code within an agile environment, reducing lines of code by approximately **15% to 20%** using BitBucket.

Education

Bachelor of Engineering

Polytechnique Montreal

Montreal, QC, CA 01/2020 – 12/2023

- Major in Software Engineering

Projects

- **LLM Search engine:** Built and deployed a Mistral LLM-based search engine for CHUM, enabling efficient retrieval of top **10** members from a health/AI expertise database in response to user prompts. **(04/2023)**
- **Data Visualization:** Collaborated with ElligenCIA (IVADO) to create and deploy **three** data visualizations using Python, depicting the relationship between tweets and the EUR/USD exchange rate. **(04/2023)**
- **Portfolio:** Designed, built and deployed my own portfolio website using React, Next.js and Tailwind CSS. **(01/2023)**
- **SCRABBLE:** Implemented the Scrabble game using Angular & Flutter **(09/2021 – 12/2022)**
 - Extended the Scrabble game's reach, allowing cross-platform play between web and android users.
 - Features an online multiplayer mode allowing players to face each other and optionally play against AI bots of 2 adjustable difficulties and a special game mode that grants players bonus points upon completing in-game challenges.
- **Embedded system robot:** Programmed a microcontroller to command an embedded system robot using C++. **(09/2020)**

Others

- **Scholarship for Excellence in Software Engineering:** Awarded a **\$1000** scholarship from the Minister of higher education for presenting a high-quality academic record. Qualification of excellence is based on the cumulative average in the program. **(03/2021)**