

Farah Mohamed

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EDUCATION

Université de Montréal

Computer Science

Montréal, QC

2022 – 2025

Cégep de l'Outaouais

Natural Sciences

Gatineau, QC

2022

PROJECTS

Collaborative Whiteboard (Full-Stack) | TypeScript, Next.js, Convex, Clerk, Liveblocks

[Live Demo](#)

- Built a real-time collaborative whiteboard application allowing multiple users to draw and interact simultaneously.
- Implemented secure authentication with **Clerk** and real-time synchronization using **Liveblocks**.
- Used **Convex** as a reactive backend and **Next.js** for a modern, high-performance web architecture.
- Deployed and tested the application with real users on Vercel

Automated Testing & CI/CD | Java, Maven, GitHub Actions, JUnit, JaCoCo, SpotBugs

[GitHub Link](#)

- Wrote GitHub Actions to build with Maven and run JUnit unit/integration tests on push/PR (CI/CD).
- Added JaCoCo coverage gating and used numerous flags to check that specific constraints were met.
- Published test reports and coverage badge to speed reviewer feedback and improve code quality.

Adding a Host Language to a Programming Language | Scheme, BASIC, x86

[GitHub Link](#)

- Project completed as part of a compilers course.
- Four-month project focused on implementing a programming language.
- Added a host language feature enabling compilation of a subset of Scheme.

EXPERIENCE

Security Analyst (Student)

July 2024 – June 2025

Canada Revenue Agency (CRA)

Gatineau, QC

- Analyzed the security risk of software and user accounts to approve or deny requests for additional permissions.
- Maintained up-to-date knowledge of cybersecurity standards and best practices.
- Used various resources and techniques (documentation, client/mentor consultation, and similar cases) to make informed decisions.

Tutor

October 2023 – June 2025

MonsieurMath

Montréal, QC

- Helped students reach their academic goals; most students improved to scores above 80%.
- Communicated with students and parents via Microsoft Teams to coordinate lessons and address needs.
- Used Miro as an interactive whiteboard for online sessions.
- Recorded student data (date, subject, grade, etc.) using Microsoft Excel.

Ski Patrol / Instructor

Winter 2017 – Winter 2018

Ski-Cool — Relais Plein air

Gatineau, QC

- Supervised and guided children learning to ski.
- Managed transportation and setup of equipment required for activities.
- Provided first aid in case of incidents or emergencies.

TECHNICAL SKILLS

Languages: Python, Java, SQL, TypeScript, Haskell, C, C++, Scheme, Swift, Gambit,

Frameworks: React, NumPy, Node.js, Three.js

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Outlook, Excel, Maven

Design: Figma, Miro, Canva