

# 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 Vercell

### 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

*MonsieurMath*

October 2023 – June 2025

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