

# Jeffrey Bringolf

Montreal, QC

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## EDUCATION

**Concordia University**, Montreal, QC

*Bachelor of Computer Science in Computer Science*

Sep 2023 — May 2026

GPA: 4.23/4.3

### Awards:

NDT Technologies Inc. Scholarship for Engineering and Computer Science

Gina Cody School Entrance Award

**John Abbott College**, Montreal, QC

*DEC (Associates) in Computer Science Technology*

Sep 2020 — May 2023

GPA: 4.0/4.0

### Awards:

Credit standing: Dean's List

Academic Excellence Award for the highest overall average in the Computer Science program

## EXPERIENCE

**General Electric**

*Software Developer*

Remote

Jun 2021 — Present

- Collaborated with two coworkers to migrate an external client from on-premises to an **AWS EKS (Kubernetes)** Cluster
- Optimized the memory usage and speed of the in-house Snappy **Python** module for data pulls by **86% and 42%** respectively
- Increased the efficiency of 40+ energy engineers by developing 10 Python scripts which automate report generation
- Enhanced the security of over 100 end users by adding authentication to our server using **Active Directory through LDAP**
- Provided valuable feedback in weekly code reviews and built upon others' recommendations to improve the quality of my code
- Discussed technical requirements and implementations with external clients with regards to ongoing or potential projects
- Improved the robustness of existing logic in the Snappy Python module by writing 60+ unit tests using **PyTest**

**John Abbott College**

*Programming Student Teacher*

Montreal, QC

Sep 2022 — Nov 2022

- Leveraged excellent time management skills to develop **5 weeks of courses** while balancing a heavy course load and work commitments
- Clearly communicated programming concepts to students who had never been introduced to the field
- Inspired 6 of 20 students to pursue programming or computer science with my **enthusiastic** approach to software and technology

**John Abbott College DevClub**

*President*

Montreal, QC

Sep 2021 — May 2023

- **Mentored 5-10** Computer Science students each semester, teaching them the basics of game development
- Developed slides and weekly demos to teach programming fundamentals to younger students which they hadn't yet covered in class

## PROJECTS

**SHFT - IoT Farming App** | C#, IoT, Azure, Cloud Computing, .NET MAUI

<https://github.com/jeffbrin/SHFT>

- A **.NET MAUI mobile application** which interacts with a Python script to remotely manage a farming container
- The application and script use **Azure IoT Hub** to communicate between each other which provides a seamless display of information from **7 sensors** and allows the application to control 5 different aspects of the **hardware**
- Developed in a group as a capstone project in my final semester at John Abbott College

**Personal Website & Portfolio** | JavaScript, HTML, CSS

<https://jeffbrin.github.io>

- Built in **Vanilla JavaScript** in 2 weeks to serve as a personal portfolio
- The site contains an abundance of **interactive and responsive** elements which make it more engaging than a static portfolio website

**Pokemon Tower Defense** | JavaScript, HTML, CSS, State Machines

<https://github.com/jeffbrin/PokemonTowerDefense>

- A Tower Defense game in which you catch enemy Pokemon and use them as towers to defend against oncoming waves of Pokemon
- The game was made with a partner in 1 month as a final project for our Game Development course at John Abbott College
- Written entirely in **Vanilla JavaScript** and uses state machines extensively

## CERTIFICATIONS

- **AWS Certified Cloud Practitioner**

## SKILLS

- **Programming:** Python, JavaScript, C#, Java, TypeScript, HTML/CSS, SQL, MongoDB, NumPy, Pandas, React, NodeJS, .NET MAUI, Flutter, SQLite, MySQL
- **Software:** Cloud Computing (AWS, Azure), Docker Containers, Kubernetes, Git, GitHub Actions, HG, Unix/Linux Environments, Testing Frameworks (Mocha, Puppeteer, NUnit, PyTest), Unity
- **Concepts/Development:** CI/CD, REST APIs, Data Structures, Algorithms, Android and Cross-Platform Mobile Application Development, Web Application Development, Backend Development, States/State Machines, Architectural Patterns (MVC, MVVM, MVP), Design Patterns, Object-Oriented Programming, API Design, Relational Databases, NoSQL Databases, Agile Development
- **Languages:** English (Fluent, Native), French (Working Proficiency), German (Basic).