

# Jeffrey Bringolf

Montreal, QC

✉ [bringolfj@gmail.com](mailto:bringolfj@gmail.com) | [in linkedin.com/in/jeffreybringolf](https://www.linkedin.com/in/jeffreybringolf) | [github.com/jeffbrin](https://github.com/jeffbrin) | [youtube.com/@JoffLobster](https://www.youtube.com/@JoffLobster)

## EDUCATION

**Concordia University**, Montreal, QC  
*Bachelor of Computer Science (Honours)*

**Awards:**  
NDT Technologies Inc. Scholarship for Engineering and Computer Science  
Gina Cody School Entrance Award

Sep 2023 — May 2026  
**GPA: 4.26/4.3**  
Credit standing: Dean's list

**John Abbott College**, Montreal, QC  
*DEC (Associates) in Computer Science Technology*

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

Sep 2020 — May 2023  
**GPA: 4.0/4.0**  
Credit standing: Dean's list

## EXPERIENCE

**GE Vernova**  
*Software Development Intern*

Remote  
Jan 2023 — May 2025

- Implemented an **LSTM neural network using Keras** to identify anomalies in contingency analyses
- 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
- Enhanced the security of over 100 end users by adding authentication to our server using **Active Directory through LDAP**
- Improved the robustness of existing logic in the Snappy Python module by writing **60+ unit tests using PyTest**
- Provided valuable feedback** in weekly code reviews and built upon others' recommendations to improve the quality of my code

*Data Science Intern* Jun 2021 — Jan 2023

- Automated 12+ data pulls** using Python scripts for energy engineers which were previously done by hand
- Converted a legacy VBA database** to a Python module used to **forecast** renewable generator installation **over 30 years**
- Automated gas price data pulls, **saving hours of work per week** used to update local datasets
- Improved upon a novel algorithm** for converging loss of load expectation in resource adequacy simulations

**PEPLO**  
*Co-Founder, CTO, Lead Developer*

Remote  
Jun 2024 — May 2025

- Designed and developed a scalable server architecture using **AWS EKS (Kubernetes)**
- Created an intuitive cross-platform mobile application with **React Native** and **TypeScript**
- Led meetings alongside non-technical co-founders, **clearly explaining technical decisions** in an understandable manner

## PROJECTS

**ChromaClimb** | *React Native, Machine Learning, Computer Vision, Python* <https://devpost.com/software/climb-categorizer>

- Supported teammates developing a React Native mobile app which categorizes rock climbing holds using a **machine learning model**
- Developed the back-end server and YOLOv8-based **object recognition** model in only 24 hours
- Provided guidance for beginner teammates during their first Hackathon

**Tabinator - Hack the North** | *Swift, Bash, Python, PowerShell* <https://devpost.com/software/tabulator>

- Developed** a fully functional utility for syncing windows and tabs in 36 hours
- Demonstrated a high capacity for **quick, independent learning** by developing Swift and AppleScript scripts for the first time
- Provided support** to a beginner teammate by assisting in the development of PowerShell and Python window management scripts

**SHFT - IoT Farming App** | *C#, IoT, Azure, Cloud Computing, .NET MAUI* <https://github.com/jeffbrin/SHFT>

- Created a **.NET MAUI mobile application** which interacts with a Python script to remotely manage a farming container
- Leveraged **Azure IoT Hub** to facilitate communication between the Raspberry Pi and the .NET MAUI application
- Demonstrated **excellent communication and teamwork** skills by leading a team of 3 college students in this capstone project

## CERTIFICATIONS

- AWS Certified Cloud Practitioner <https://www.credly.com/badges/9f64ec16-7ecc-4079-8298>

## SKILLS

- Programming:** Python, JavaScript, C#, Java, TypeScript, Swift, Bash, HTML/CSS, Keras, SQL, MongoDB, NumPy, Pandas, React, NodeJS, .NET MAUI, SQLite, MySQL
- Software:** Cloud Computing (AWS, Azure), Docker Containers, Kubernetes, Git, GitHub Actions, 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 (Native, Fluent), French (Professional working proficiency), German (Basic)