Emilien **Breton**

EDUCATION

University of Ottawa

BSc with Honours in Computer Science,
Data Science Option

September 2021 — Expected December 2025

Polyvalente Saint-Francois

IB Middle Years Programme, Secondary School Diploma

September 2016 — June 2021

PROJECTS

🔗 Personal Website

A portfolio for sharing various projects

JavaScript • HTML • CSS • Markdown • NextJS • Git

- Designed and implemented appealing UI and optimized UX resulting in over 750 unique visitors a month
- Utilized caching system and optimized site-wide accessibility resulting in Lighthouse score consistently over 95%

AI Image Compressor

A neural network that learns to compress specific categories of images

Python • Tensorflow • Keras

- Implemented web scraper and image preprocessor optimized with numpy to generate millions of training samples in less than 5 minutes
- Created and implemented custom algorithm within autoencoder structure to allow for variable compression ratio with no overhead
- Supervised training process and tweaked settings leading to results of superior quality than JPEG compression when in favorable circumstances

🔗 IB Personal Project

Design and build of a racing drone

May 2020 — February 2021

- Strategically put in place a dozen deadlines for the year-long project allowing for submission of 🔗 final report several days early
- Designed project roadmap based on thorough understanding of possible complications resulting in only one major setback caused by defective parts

EXTRACURRICULAR

🔗 Legacy Protocol

Submission for DeFi The Conventional 2022

JavaScript • React • Rust

March 18th 2022 — March 20th 2022

- Won first place in DeFi category of Canada's largest hackathon along with 2500$ prize as part of a 3-member team
- Built fully functional MVP frontend and backend layers within tight 36-hour timeframe thanks to efficient collaboration and teamwork under pressure

Group Chat Moderator

Course-specific Discord server creator, owner and moderator

University of Ottawa

- Built, promoted, organized and maintained several Discord servers allowing students to find course material easily and collaborate efficiently
- Created 🔗 Discord bot to help with moderation of over 500 members to ensure seamless experience for all students

May 2022

CONTACT

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✉ mail@emilien.ca

🔗 https://emilien.ca/
Portfolio

⊙ github/
Bricktech2000

in linkedin/in/
emilien-breton

TECHNOLOGIES

Programming Languages

JavaScript • Python • C++ • Rust

Frameworks

React • NodeJS • Next JS • Express

Development Tools

Linux • Bash • Git • Github • VS Code • Vim

Other Skills

HTML • CSS • JSON • Markdown • LaTeX • C • Assembly • Notion • Fusion 360 • Cura • Figma • Raspberry Pi • Arduino

LANGUAGES

English   *advanced*

Second Language

French   *advanced*

Mother Tongue

Spanish   *intermediate*

Simple Conversations