

Oliver Bejjani

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EDUCATION

McGill University, B.A. in Computer Science

Sep. 2023 – May. 2027

GPA: 3.72/4.0

Montreal, QC

- Coursework: Compiler Design, Applied ML, Algorithms & DS, Computer Systems, DB Systems, Software Design

PROFESSIONAL EXPERIENCE

Team Mentor, COMP 250: Introduction to Computer Science

Aug. 2025 – Apr. 2026

McGill University

Montreal, QC

- Answered 150+ student questions on Java, DS, and algorithm design for COMP 250.

Software Development Intern, Brainiac SARL

Mar. 2023 – Jun. 2023

Express.js, MySQL, Bull.js, Socket-IO, Selenium, Docker — HTML, CSS, JavaScript, Bootstrap

Remote

- Built a full-stack trends analytics dashboard allowing users to submit keyword queries and receive results in real time.
- Designed an asynchronous backend with headless Selenium scraping and queued jobs to handle concurrent tasks.
- Built and containerized a multi-service system connecting the API, database, worker, and live client updates.

SKILLS

Programming Languages: Python, Java, C, TypeScript, JavaScript, HTML, CSS, SQL, OCaml, R

Frameworks & Tools: FastAPI, React, Next.js, Vercel, OpenAI API, SQLAlchemy, Express.js, Docker (Compose), Selenium, TailwindCSS, Bootstrap, Socket-IO, Bull.js, PyTest, JUnit, Git/GitHub, Bash, Linux

Spoken Languages: English (fluent), French (fluent), Lebanese Arabic (fluent)

PROJECTS

SmartFind - AI powered document search | Python, FastAPI, OpenAI, React, TypeScript, Tailwind, Docker

- Built a full-stack AI system enabling semantic search over lecture slides and PDFs, allowing users to quickly locate where topics were discussed without keyword matching.
- Designed backend logic for document ingestion, embedding generation, and in-memory vector search.

Screen-duo | Python, PySide6, ffmpeg, WebRTC, v4l2

- Built a Linux tool for simultaneous screen/phone recording via WebRTC from Safari into v4l2.
- Designed automated segment sync and ffmpeg picture-in-picture compositing using clapper flash and audio spike detection, allowing publish-ready output without manual alignment.

Personal Portfolio | Next.js, TypeScript, Drizzle ORM, Neon Postgres, NextAuth, Vercel

- Built a Next.js portfolio with a Postgres-backed project catalog, grouping work by category and surfacing demo videos and walkthroughs without leaving the site.
- Implemented an auth-gated admin CMS to create, update, and publish profile and project content from a single panel.

The Tavern - Software Design | Python, Pytest

- Implemented Strategy, Singleton, Command, and Prototype patterns to build modular logic for a fantasy tavern map.
- Led a team of 3 through development, guiding implementation, reviewing code, and managing collaboration with Git.
- Wrote Pytest unit tests targeting 100% branch coverage, validating logic across all expected control paths and conditions.

PolyHacks24 - Waste Tracker | Python, FastAPI, SQLAlchemy — JavaScript, HTML, Bootstrap

- Built a full-stack waste tracking web application allowing users to log and view waste data for sustainability awareness.
- Led a team through unfamiliar technologies during a hackathon, guiding debugging and integration across the stack.

LEADERSHIP & ACTIVITIES

President, McGill MMA Club

May 2026 – Present

Executive Committee, Aug. 2023 – May 2026

- Managed club budget, training schedules, coach coordination, and day-to-day leadership of the executive team.
- Mentored 30+ members, including newcomers to combat sports, supporting onboarding and sustained participation.

GameDev McGill - Programmer

Aug. 2024 – Present

- Built a playable 3D platformer in Unity (C#) with enemy AI pathing and a complete gameplay loop
- Volunteered with the executive team to help organize and run GameDev McGill events, including game jams

Claude Builders Club McGill

Mar. 2026 – Present

Member