

# Jeffrey Lim

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## Education

### McGill University

*Bachelor of Computer Engineering, Engineering Internship Program*

Aug 2023 – May 2027

CGPA: 3.94/4.00

## Experience

### Software Development Intern *Autodesk*

Sep – Dec 2025

- Working on the Autodesk's Flame, industry standard application for video effects, in the usability team directly implementing user requests for features in **C/C++** on MacOS and Linux.
- Implementing enhancements for token parameterized naming system requested by over 500+ artists.

### Software Engineer Intern *Morgan Stanley*

May – Aug 2025

- Added firm-wide automation and escalation workflow to process overdue digital drive disposition requests for 80,000 employees using **Java**, **Spring Boot**, **SQL**, and **JPA/Hibernate**.
- Optimized multi-threaded data retrieval to process 500,000+ entries in **2 minutes**.

### Software Engineer Intern *Bell Canada*

May – Aug 2024

- Built two full-stack automation apps in **Linux** using **Vue.js**, **Python**, and **SQL**, saving 100+ hours annually.
- Deployed applications with **Docker/Kubernetes** and implemented **GitLab CI/CD** pipelines for 24/7 uptime.

### Radios Project Lead – Thorondor Mk. II and III *McGill Rocket Team*

Apr 2025 – Present

- Leading 8-member team developing **LoRa** radios, custom telemetry protocol, and IOT linked radios for Thorondor rocket, with twin systems designed and tested for a **50,000-foot** range.
- Achieved **3rd place in the Advanced Category** at Launch Canada 2025.

### Programming Robotics Teacher *Inventor STEM School*

Jun 2023 – Mar 2025

- Taught groups of 12 students in over 350+ STEM classes in Lego Robotics, Scratch, and MakeCode.

## Projects

### Radios Ground Station – Thorondor Mk. II | C/C++, Teensy, LoRa Radio

Jan 2025 – Present

- Created firmware for SX126x **LoRa** module on **Teensy 4** for real-time telemetry and command transmission.
- Implemented dual-interface communication protocol with GUI via **serial** or **Ethernet**.
- Designed packet protocol for variable-length telemetry, ensuring flexible and efficient data exchange.

### AI Finance Wellness Tool | TypeScript, React, FastAPI, SQL

Feb 2025

- Won \$400 Sunlife challenge at CONUHACKS, competing against 600+ participants.
- Built **React** + **TypeScript** app integrating a custom AI agent with **FastAPI** and PostgreSQL backend.

### Car Sales Chatbot | Python, spaCy, Flask, React

Jan 2025

- Won AI sponsor challenge at McGill CodeJam, among 300+ competitors.
- Developed full-stack **React** web app with **spaCy** NLP and vector embeddings for custom searches.

## Skills

**Languages:** Java, Python, C/C++, JavaScript/TypeScript, SQL, HTML/CSS, VHDL, Verilog HDL

**Frameworks & Libraries:** Spring Boot, Vue.js, Flask, FastAPI, React, spaCy

**Tools & Platforms:** Linux/Bash CLI, Git, Docker, Kubernetes, GitLab CI/CD, GitHub, Autosys

**Databases:** Microsoft SQL Server, IBM Db2, MongoDB, PostgreSQL