

# COLIN McLAUGHLIN

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## EDUCATION

### Queen's University

Bachelor of Computing, specialization in Artificial Intelligence

Expected Graduation Date: 04/2027

GPA: **3.63**

## TECHNICAL EXPERIENCE

### AI Developer - Natural Language Processing

September 2024 – April 2025

QMIND

Queen's University

- Analyzed, pre-processed, and visualized several large-scale electroencephalogram (EEG) datasets using Python libraries such as numpy, pandas, SciKitLearn, Matplotlib, and seaborn to train machine learning models.
- Developed a Convolutional Neural Network model for EEG classification tasks – performed at a classification accuracy of over 95% for certain datasets.

### AI Research Specialist

September 2023 – April 2025

Queen's Hyperloop Design Team (QHDT)

Queen's University

- Developed an algorithm to optimize a Hyperloop route network spanning across several provinces in Canada using geo-spatial software (QGIS) and associated python libraries.
- Contributed to proposals and research publication for Hyperloop Global in Toronto (May 2024) and European Hyperloop Week (EHW) in Switzerland (July 2024); QHDT AI received the full-scale Socio-Economic award at EHW.

### "Capture the Flag" Competitor

September 2024 – April 2025

Queen's Cryptography & Cybersecurity Club

Queen's University

- Compete in weekly remote Capture The Flag (CTF) competitions across North America, participating in categories such as Web Exploitation, Cryptography, and Reverse Engineering.

## WORK EXPERIENCE

**Residence Don**, Queen's University, Kingston, Ontario

August 2024 – April 2025

**Computer Camp Counselor**, Three-Flavours Kids' Club, Richmond Hill, Ontario

June 2024 – August 2024

**Steward**, Angus Glen Golf Club, Markham, Ontario

April 2022 – September 2022

## PROJECTS

**AI Communication Assistant** | JavaScript, HTML, CSS, Chrome Extensions API, Gmail API

March 2025

- Developing a Chrome extension integrating Gmail API that enables AI-powered search and contextual message retrieval across emails.
- Expanding functionality to analyze message sentiment, generate email responses using OpenAI API, and integrate AI-powered contextual search across other platforms such as Outlook, Discord, and Slack.

**Living Journal** | Python, JavaScript, HTML, CSS, Flask, React.js, OpenAI API

January 2025

- Designed an AI Powered journaling assistant/interface for university hackathon (QHacks 2025).
- Implements OpenAI API to generate journaling prompts for users, based off of previous responses.

**Analysis of Amazon Reviews** | Python, Pandas, Numpy, Matplotlib, Seaborn, NLTK

September 2024

- Used Python libraries to pre-process, load, visualize, and analyze sentiments from a database of Amazon Reviews.

## SKILLS

**Programming Languages:** Python, Java, C, JavaScript, HTML/CSS, SQL, MATLAB

**Frameworks & Libraries:** React, Node.js, Flask, SciKitLearn, Matplotlib, TensorFlow, numpy, pandas, seaborn

**Tools & Platforms:** Git, VS Code, IntelliJ, PyCharm, Eclipse, MS Office, Google Workspace

## ACCOMPLISHMENTS, ACTIVITIES, AND CERTIFICATIONS

Project Lead at QMIND; researching the intersection of reinforcement learning and LLMs

Incoming September 2025

Professional Development Intern at Queen's Computing Students' Association

October 2023 – April 2024

Microsoft certified in Security, Identity, and Compliance Fundamentals

January 2025