

Peter Huang

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Computer Engineering student at McGill University with background in software, algorithms, cloud architecture, word embeddings, AI agent and full-stack development. Seeking a Summer 2026 internship opportunity. I am eager to contribute and motivated to learn.

EDUCATION

McGill University — B.Eng. in Computer Engineering, GPA: 4.0 / 4.0 *Sept 2024 - April 2027*

Relevant Coursework: Data Structures & Algorithms, Software Systems, Operating Systems, Computer Organizations, Software Engineering, Object-Oriented Programming

Marianopolis College — Diploma of Collegial Studies in Pure & Applied science *Sept 2022 - May 2024*

Member: Marianopolis SFAM Club, Marianopolis Flag Football

Certification:

AWS Solutions Architect Associate *Obtained June 2025*

AWS Solutions Architect Professional *Obtained July 2025*

WORK EXPERIENCE

Transport Canada

Data Science/Engineering Intern | Azure Databricks, Data Factory, DevOps, Power BI, Git, SQL

- Leveraging BI dashboards and building ETL pipelines with Databricks (Python and SQL) for data analytics purposes.

Canada, Montreal

Sept 2025 - Current

News Bias Project, McGill AI Lab

Student Researcher | NLP, Word Embeddings, Web Scraping, Data Processing

- Applied data ETL and word embeddings (Word2Vec, BERT) to analyze news articles bias.

Canada, Montreal

Aug 2025 - Current

CloudAct CPA Professional Corporation

AI Agent Developer Intern | Web Scraping, LLM, Word Embeddings, NLP, PostgreSQL, Render

- Developed automated pipeline to monitor SEC RSS feeds and extract information from filings.
- Implemented document chunking and semantic filtering using word embeddings, built an LLM workflow for financial data extracting.
- Integrated PostgreSQL for structured data storage and retrieval of LLM outputs, enabling reliable downstream access.
- Deployed the entire system on Render, ensuring scalable and reliable availability.

Canada, Montreal

Aug 2025 - Sept 2025

Cloud Architect Intern - Coinchain Inc.

• Designed cloud architectures on AWS optimizing based on cost, availability, security and scalability.

Canada, Vancouver

May 2025 - Aug 2025

Collegial Level Tutoring - Marianopolis College & Private Tutor

• Conducted tutoring sessions for 7+ students in Calculus, Mechanics, E&M, and Computer Programming.

Canada, Montreal

Sept 2023 - Current

PROJECTS

ITTrackApply Google Extension — <https://youtu.be/KrnUM2nuuWE> (Available on Chrome Store)

- **Technologies:** JavaScript, Python, SQL, Google Sheets API, AWS Lambda, OAuth 2.0, DynamoDB, REST API, OpenAI
- Developing a Chrome extension that automates job application tracking with Google Sheets API integration.
- Implemented secure OAuth 2.0 authentication and real-time synchronization to DynamoDB.
- Built a scalable Python Flask backend deployed on AWS Lambda and integrated with API Gateway.
- Leveraged LLM-powered Data Extraction for extracting data from job posting website.
- Designed a user-friendly interface using Chrome Extension APIs with a focus on UX and data accuracy.

Grocery Store GUI Application — <https://github.com/peterhxxk/GroceryStoreGUI>

- **Technologies:** Java, Umple, SceneBuilder, Git, Cucumber, JUnit, VSCode debugging tools
- Developed a full-stack grocery store management application as a group project using Java with a Model-View-Controller architecture.
- Designed system models with Class Diagrams and State Machines using Umple, auto-generating base code for the application's structure and logic.
- Built responsive UI components using SceneBuilder and conducted tests using VSCode debugging tools.

MoodDetector — https://github.com/peterhxxk/CodeML_Hackathon_2025

- Fine-tuned ResNet-152 Model on emotion image dataset, implemented live camera emotion detector with effects

ScrapeNYT — <https://github.com/peterhxxk/ScrapeNYT>

- Scrapes 2500+ Articles per hour from New York Times Magazine and records in JSONL file for further ML purposes.

Warehouse Management System — <https://github.com/peterhxxk/InventorySys>

- Developed a full-stack web application using React, Node.js, and MongoDB for factory warehouse management.

Cybersecurity & Systems Programming — <https://github.com/peterhxxk/CybersecSystemProg>

- Developed network servers in C and automated system tasks using Bash scripts, implemented offensive cybersecurity techniques.

TECHNICAL SKILLS

Programming Languages: Python, Java, C, Bash, JavaScript, TypeScript, HTML, VHDL, MongoDB, Node.js, React, SQL

Frameworks & Tools: AWS, Git, Unity, LangChain, Quartus, ModelSim, SceneBuilder, VSCode, Umple, OpenAI, Azure Databricks, Azure Data Factory, Power BI

Languages: English, French, Chinese (Mandarin)

AWARDS & ACHIEVEMENTS

- 2025 McGill John Howard Ambrose Scholarship
- 2025 McGill Dean's Honour List
- 2024 Marianopolis Dean's List
- 2023 RSEQ Flag Football All-Star Award
- 2022 Football Most Polyvalent Player Award
- 2022 Physics Academic Excellence Award