

# 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

**Incoming Data Science & Engineering Intern – eBIDA Team, Transport Canada**

**Canada, Montreal**

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

*Sept 2025 - Dec 2025*

**Student Researcher – News Bias Project, McGill AI Lab**

**Canada, Montreal**

- Applying word embeddings (Word2Vec) and NLP techniques to analyze news articles and detect bias patterns.

*Fall 2025*

**CloudAct CPA Professional Corporation**

**Canada, Montreal**

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

*Aug 2025 - Sept 2025*

- Developed an automated pipeline to monitor RSS feeds.

- Implemented document chunking and semantic filtering using word embeddings, built an LLM workflow for financial data extracting with LangChain.

- 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.

**Coinchain Inc.**

**Canada, Vancouver**

Cloud Architect Intern | AWS

*May 2025 - Aug 2025*

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

**Marianopolis College**

**Canada, Montreal**

Peer Tutoring | Collegial level teaching

*September 2023 - Jan 2025*

- Conducted one-on-one tutoring sessions for 6+ students in Calculus, Mechanics, E&M, and Computer Programming.

## 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.
- Automated builds with Gradle and performed Behaviour-Driven Development testing using JUnit and Cucumber.
- Collaborated using Git for version control and branch management, enabling efficient teamwork and code integration.

**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 buffer overflow exploits to understand 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

**Languages:** English, French, Chinese (Mandarin)

## AWARDS & ACHIEVEMENTS

- 2025 McGill In-Course Scholarship - Awarded for academic excellence
- 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