

# Peter Huang

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Computer Engineering student at McGill University with background in software, algorithms, cloud architecture, cybersecurity, AI agent and full stack development. Seeking a Summer 2026 internship opportunity. I am eager to contribute to the fields and industry.

## 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

### **Coinchain Inc.**

**Canada, Vancouver**

Cloud Architect Intern | Amazon Web Services

*May 2025 - Current*

- Designed and implemented scalable, secure, and cost-effective cloud architectures on AWS.
- Assessed organizational requirements to develop cloud strategies aligned with business goals and technical needs.
- Established best practices for cloud security, networking, and resource optimization.

### **Marianopolis College**

**Canada, Montreal**

Peer Tutoring | Collegial level teaching

*September 2023 - Current*

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

## PROJECTS

**ITrackApply Google Extension** — <https://youtu.be/KrmUM2nuuWE> (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 OpenAI API for fetching website information.
- Designed a user-friendly interface using Chrome Extension APIs with a focus on UX and data accuracy.

**Grocery Store GUI Application** — <https://github.com/peterhxx/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/peterhxx/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/peterhxx/InventorySys>

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

**Cybersecurity & Systems Programming** — <https://github.com/peterhxx/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:** Amazon Web Services, Git, Unity, React.js, Quartus, ModelSim, SceneBuilder, VSCode, Umple, OpenAI

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

## AWARDS & ACHIEVEMENTS

- 2024 Marianopolis Dean's List
- 2022 Football Most Polyvalent Player Award
- 2023 RSEQ Flag Football All-Star Award
- 2022 Physics Academic Excellence Award

- 2022 DragonBoat Silver Medal