

# Henry Chen

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## EDUCATION

### University of Toronto

Present - April 2026

*HBSc. in Computer Science (Specialist)*

- **CGPA:** 3.76/4.0
- **Relevant Courses:** Machine Learning, Data Structures and Analysis, Operating Systems
- **Scholarships:** The Robert Bruce Scholarship

## TECHNICAL SKILLS

C | Linux/UNIX | Java | Python | Neural Networks | Javascript/PHP/HTML/CSS/TypeScript/Tailwind | Node & Next.js | React | Assembly | MySQL | Data Structures and Algorithms | Restful APIs | Git | Docker

## EXPERIENCE

### WEBSITE DEVELOPER & MANAGER | Consulting Industry | March 2022 - Present | Ottawa

- Spearheaded the development of new websites to expand the portfolio of services.
- Modified existing Wordpress template code to integrate new functionality.

## PROJECTS

### SCRIPTORIUM - WEBSITE | *JAVASCRIPT, TYPESCRIPT, NEXT.JS, REACT, PRISMA ORM, DOCKER, TAILWIND*

- Developed user authentication and authorization system using **JWT token authentication**.
- Utilised **Docker** containers to create isolated code sandboxes for users.
- Leveraged React and TailwindCSS to deliver a **single-page & responsive UI**.

### CSCSHELL - BASIC UNIX SHELL | *C, LINUX/UNIX*

- Used **Processes, Pipes, and Streams** to parse and execute commands while supporting file redirection.
- Incorporated **Dynamic Memory allocation** for Shell Variables.

### UNIVERSITYEXPLORER - RECOMMENDATION SOFTWARE | *Java, MySQL, Python*

- Developed software in a **team** environment following **Clean Architecture** and **SOLID principles**.
- Created a Python **Flask** based web **API** to handle HTTP requests to access a MySQL database.
- Applied **design patterns** such as strategy, observer, factories, and dependency injection.
- Coded **test suites** and demonstrated the Maven project to stakeholders.

### BETAGOZERO - GO ARTIFICIAL INTELLIGENCE SOFTWARE | *Python*

- Applied **decision tree and graph structure** to reduce computational complexity.
- Developed a user-friendly interface for interacting with an **artificial intelligence** player.
- Designed and implemented a system to **generate, store, and mutate** a central decision tree.

## VOLUNTEERING

### CYBERSENIORS - TECHNOLOGY ASSISTANT

- Assisted local seniors with adopting and using technology.
- Provided technical support by diagnosing and resolving 80% of hardware or software issues.

## AWARDS

- Governor General's Academic Medal (Bronze)
- Ontario Scholar
- Dean's List Scholar
- DELF B2