Henry Chen

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EDUCATION

University of Toronto   Present - April 2026

BSc. in Computer Science

- **CGPA**: 3.94/4.0
- **Relevant Courses:** Foundations of Computer Science, Software Design, Data Structures and Analysis
- **Scholarships:** The Robert Bruce Scholarship

TECHNICAL SKILLS

Linux (WSL) | Java | Python | C | PHP | HTML | CSS | MySQL | Flask | TensorFlow | JavaScript | Git & Github

EXPERIENCE

WEBSITE DEVELOPER & MANAGER | Consulting Industry | September 2021 - Present | Ottawa

- Spearheaded the development of new websites to expand the portfolio of services.
- Modified existing Wordpress template code to integrate new functionality.
- Maintained existing website functionality (SSL certificate, resource management, etc).

PROJECTS

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.
- Created board rotation algorithms to increase explored board variations by 400%.
- Coded functions to easily manipulate Smart Game Format files.
- Developed a user-friendly interface for interacting with and observing the behavior of the **artificial intelligence.**
- Designed and implemented a system to **generate, store, and mutate** a central decision tree to reduce the computational burden on the user.

APPROVALS WORLD - WEBSITE | *PHP, HTML, CSS, JavaScript, SQL*

- Developed user login system using a **MySQL** database**.**
- Integrated auto-mailer and Google reCAPTCHA which reduced spam attacks by 95%.
- Modified scripts to protect against SQL injection attacks.

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