

Changdao He

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I am currently taking Introduction to Artificial Intelligence course, where I am gaining hands-on experience with game-tree search, uncertainty handling, and AI algorithms. The opportunity to apply these concepts in the Hanabi Agent Design project excites me, as it aligns perfectly with my growing interest in AI-driven problem-solving. With a background in collaborative programming and a passion for building intelligent agents, I look forward to contributing to this project.

TECHNICAL SKILLS

- Programming Languages: C, Java, Python, SQL, Shell Script, Assembly, R
- Tools: Git, PostgreSQL, JetBrains IDEs, Unix Shell, Saturn, LaTeX, MS Office 365, Logisim-evolution
- Object-Oriented Programming, Relational Databases, Technical Proficiency, Project Management, Communication Skills, Problem Solving, Task Planning & Organization Skills, Mentorship & Learning, Teamwork, Independence

EDUCATION

UNIVERSITY OF TORONTO

Honours Bachelor of Science

Toronto, ON

Sep 2022–Present

- Computer Science Major, Mathematics Major, Art & Science Internship Program: Computer Science
- CGPA: 3.66/4.0, achieved “Dean’s List” Distinction in 2023 & 2024 academic years
- Relevant Courses: Intro to Artificial Intelligence, Software Design, Software Tools & Systems Programming, Algorithm Design & Analysis & Complexity, Intro to Theory of Computation, Data Structures & Analysis, Modern Symbolic Logic
- Planned Courses: Intro to Software Engineering, Intro to Machine Learning, Intro to Visual Computing

INTERNSHIP EXPERIENCE

BGI GENOMICS

Software Development Intern

Shenzhen, China

Jul 2023–Aug 2023

- Contributed to enhancing the CRM system, conducted module functionality testing, and explored automation strategies to streamline testing workflows.
- Led several group meetings, demonstrating project management and coordination skills.

SHENZHEN UNIVERSITY

Data Processing Intern

Shenzhen, China

Jun 2023

- Communicated and collaborated with graduate students and decided how to visualize the data.
- Processed and visualized raw EEG data using the matplotlib library in Python.

PROJECTS

WEATHER WEAVERS

Java, Github

Toronto, ON

Sep 2023–Dec 2023

- Led the development of business logic applying Clean Architecture and SOLID Principles in a Java weather application, integrating API for real-time data.
- Implemented multiple use cases, conducted comprehensive testing and debugging, significantly improving application reliability and user experience in a collaborative team project.

CSCSHELL

C, Shell

Toronto, ON

Feb 2024–Mar 2024

- Implemented a basic shell in C, that supports core functionalities such as variable assignment, script execution, system call usage, file redirection and piping, demonstrating proficiency in C-String parsing and system calls.
- Demonstrated proficiency in logic and software systems.