

JINYUAN ZHOU

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EDUCATION

Computer Engineering (BASc) + PEY Co-op, University of Toronto

Expected 2030

- **GPA:** 3.84

BC Dogwood Diploma, Nanjing Foreign Language School British Columbia Academy

2022 - 2025

SKILLS

Technical Skills: Python, Rust, C, HTML, CSS, JavaScript, Git, PyTorch, FastAPI.

Professional Skills: Project Management, Communication, Teamwork, Critical Thinking, Research

Language Skills: Chinese (Native), English (Professional Working)

EXPERIENCE

Software Engineer Intern

Jun 2026 - Jul 2026

Huasuo Technology (Howso Technology)

Nanjing, Jiangsu, China

- Implemented move control and audio function for Unitree G1/GO2 using MQTT and Unitree Python SDK
- Developed a React 19 + FastAPI bid analysis platform with Qdrant-powered RAG for automated response matrix generation.
- Explored IoT and embodied AI technologies through hands-on experience with MQTT communication protocols and ROS 2 robotics frameworks.

Reversi bot - Developer

Mar 2026

University of Toronto - APS105 Computer Fundamentals

Toronto, Ontario

- **Ranked 2** among submissions from 440 students in the APS 105 Computer Fundamentals course.
- Developed a Reversi AI algorithm capable of autonomously and intelligently evaluating board position and generate optimal moves.
- Optimized performance using minimax search, iterative deepening, move ordering, alpha-beta pruning techniques, enabling deeper game-tree exploration within fixed time limit

Semestra - Developer

Nov 2025 - Apr 2026

Personal Project

- Built a Canvas LMS-integrated academic management platform with React and Tailwind CSS for course and assignment tracking
- Developed FastAPI backend services with SQLite, supporting data persistence and Canvas API integration
- Applied multi-agent orchestration and prompt engineering techniques to streamline AI application development workflows.

Calendar File Generator - Developer

Aug 2024 - Jan 2025

Nanjing Foreign Language School

Nanjing, Jiangsu, China

- Optimized parsing logic, achieving up to 2x speedup, and 50%+ smaller calendar file output
- Integrated generator with school's Learning Management System to allow students import their schedules with ease.

- Utilized Python web crawler and network library to fetch and process data from school LMS.

PROJECTS

jsh Built a shell demo from scratch using Rust that support REPL, basic builtin command and external command execution ([Repository](#))

AP Statistic 12 Research Project Designed and Conducted experiments analyze how LLM size affects repetitive self-verification behaviors in chain of thought. [Repository](#)