

ZHEHAI ZHANG

A student dedicated to making an impact in the tech industry.

Contact

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Education

University of Waterloo

*Bachelor's of Computer Science
Digital Hardware Specialization
Expected Graduation: 2025
GPA: 4.0*

Skills

Languages:

*C, C#, C++, Java, Javascript,
HTML/CSS, Python, Latex, SQL*

Frameworks:

*Node.js, Vue.js, Nuxt.js, Unity,
React*

Tools:

*Git, Linux Administration,
Cloudflare, Nginx, Adobe CC,
Firebase, PostgreSQL*

Experience

CodeReach Teacher

- Prepared lesson materials
- Taught a class of 20 grade school students the Python programming language

MasseyHacks VI - Executive

- Supervised workshops and managed events

Computer Science Club - Junior Leader

- Taught competitive programming techniques and algorithms
- Organized local programming competitions on self-hosted online judge

Chess Club - Leader

- Organized official qualifier tournaments for the Ontario Chess Championships
- Lead the team to win the Ontario High School Chess Tournament 2 years in a row

Canadian Young Physicist's Tournament - Bronze Medalist

- Used numpy, matplotlib and panda to interpret challenging physics problems
- Developed simulations in MATLAB and Solidworks involving aerodynamics, fluid dynamics, and magnetism

Projects

SubSpace - HackTheNorth 2020 ++

- Won as an event finalist
- Developed a way to remotely deploy and share virtual machine instances on the fly
- Used Node.js, WebSockets, CockroachDB, NoVNC, and Nuxt.js

9it - Version Control System

- A naive implementation of Git built from scratch in C
- Implemented Git internal features such as add, commit, and hash tree structure

ARitus - MIT Reality Virtually Hackathon

- An AR rehabilitation hack that helps people with arthritis regain mobility
- Used HTC Vive Pro Headset and Leap Motion Orion Hand Tracking

Teleclinic - Online Medical Clinic

- A convenient platform to schedule medical appointments, enter queues for walk-in appointments, and connect with their doctor through Zoom.
- Used Node.js and SQL to handle backend logic and queries, used Vue.js and Zoom for frontend

Awards

Rene Descartes National Scholarship

- Entrance Scholarship valued at \$20 000, awarded up to 15 students

Loran Scholar's Foundation Semi-Finalist

- Selected from 5194 applicants based on evidence of character, service, and leadership

Canadian Computing Competition Senior

- Placed Top 8% out of 2700 students

First Lego League Youth Mentor Award

- 2 times First Lego League Mentor Recipient out of 100 teams