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

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 rehabilitiation 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