

# Le Han (Lucas) Zhu

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## Skills

**Languages** Python, C++, C, Java, JavaScript, Racket, SQL (MySQL, Postgres SQL), Haskell

**Frameworks** Angular, React Native, Node.js, React  
**Soft Skills** Leadership, Teamwork, Problem-Solving

## Education

**University of Waterloo: Bachelor of Computer Science (BCS)**

**2024-2029 (Expected)**

GPA: 3.85/4.0, CAV: 88

- Awards: CIBC National Math Scholarship, President's Scholarship of Distinction
- Academics: Taking Advanced Math and CS courses covering Ring and Group Theory, Mathematical Analysis, Topology, Probabilistic and Deterministic Primality Tests, Functional Programming, and Machine Language

**Guelph C.V.I. IB Program**

**2020-2024**

IB Diploma Score of 41

- Schulich Leader Nominee
- AP Calculus BC Score of 5, AP Computer Science A Score of 5

## Achievements

**CIBC National Math Scholarship**

**2024**

- 1 Awarded Each Year by the University of Waterloo
- Given to a candidate distinguished academic standing in mathematics and/or computer science and record of accomplishments in mathematics and/or computer science far exceeding standard course requirements

**Math Contest Results**

**2019-Present**

- Qualified for the Canadian Qualifying Repechage (CMOQR) (Top 125 in Canada)
- 4 x Qualified for the American Invitational Math Examination (Top 2.5% in North America)
- 2023 Canadian Senior Math Contest Student Champion (Top 8 in Canada out of 10000 competitors)
- Euclid Contest Group IV Honour Roll (Top 1.5% in over 15000 competitors)
- Canadian Computing Contest Senior Honour Roll
- 2 x Attended Harvard MIT Math Tournament (HMMT)

## Projects

**Midnight Sun Strategy Team**

**2024-Present**

- University of Waterloo Design Team focused on solar car design
- Part of strategy team, researched and utilized Solar API to maximize power gain based on solar irradiance
- Wrote python scripts with psycopg2 to upload CAN data to Postgres DB connected to Grafana in order to visualize data
- implemented genetic algorithms with python into optimization module to improve solar car efficiency

**Mobile Card Creator Party Game**

**2025**

- Android and IOS app designed as a party game for friends
- Worked on frontend with TypeScript and JavaScript, integrated image upload capabilities with React Native
- Used Google Firebase on the backend for storage and retrieval of gamestates.

**Rotrics Dexarm**

**2023-2024**

- Designed C++ script to convert PNG images to SVG files
- Implemented Rotrics API in Python to physically draw out converted SVG files

## Relevant Experience

**Canadian Team Programming Competition Tester**

**2024-Present**

- Responsible for testing contest problems present in the Canadian Team Programming Competition

**Nine Chapters Contest Chair**

**2024-Present**

- Responsible for the Preparation and creation of the Nine Chapters math contest
- The NCC is organized by Grand River Chinese School, sponsored by Canadian Mathematical Society (CMS)

**Grand River Chinese School Math Teacher**

**2022-Present**

- Taught math contest concepts and problem solving skills to grade 7/8s
- Responsible for managing and creating lessons and homework

**Guelph CVI Math Contest Club President**

**2021-2024**

- Let the GCVI Math Contest Club, Responsible for planning weekly meetings and organizing Math Contests at GCVI
- Through leadership improved Math Contest Results, GCVI became District Champions in the 2022 CSMC