

# Elaine Zhao

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## Education

### University of Waterloo

Sept. 2022 – Present

*Candidate for Bachelor of Computer Science*

*Waterloo, ON*

Expected graduation: April 2027

**Cumulative GPA:** 3.7

**Awards:** President's Scholarship of Distinction (May 2022), Term Distinction (Fall 2022, Winter 2023)

**Clubs and Activities:** UW Debate Society, Women in Computer Science

**Relevant Coursework:** Data Structures and Data Management (CS 240), Foundations of Sequential Programs (CS 241), Computer Organization and Design (CS 251), Object-Oriented Software Development (CS 246)

## Skills

- Languages: C++, C, Java, Python, HTML, CSS, JavaScript, Bash
- Tools and Frameworks: Linux, SQL, GitHub, Jekyll

## Experience

### Front-End Developer

Jun. 2023 - Aug. 2023

*CentML as part of the Waterloo Experience Accelerate Program*

*Remote Work from Toronto, ON*

- Revitalized the customer-facing marketing website, [centml.ai](https://centml.ai), employing the robust framework of **Jekyll**
- Integrated updated statistics about product performance to showcase benchmarks, seamlessly aligning with company branding
- Implemented **Segment.io** to track real-time user engagement analytics to send to third-party applications

## Projects

### Chess | C++



- Developed a command-line chess game using **C++** with an integrated **XWindow** graphic display
- Implemented three different game modes, including two-player functionality as well as **three levels** unique AI algorithms that analyze the chessboard to determine subsequent strategic moves
- Utilized **Object-Oriented Programming** principles and various Software Design Patterns such as the **Observer** and **Decorator** patterns to optimize for flexibility with future scalability and modifications

### Personal Website | HTML, CSS, JavaScript



- Fully designed and built a personal portfolio website using **HTML, CSS and JavaScript**
- Leveraged frameworks such as SwiperJS to create responsive sliding galleries to showcase personal projects
- In the process of implementing a responsive design to optimize for different device screens and planning to utilize multiple color palettes to enhance the user experience

### Wordle+ | Java



- Created a Java GUI of the game *Wordle* which selects words from a database of **8000+ words**
- Analyzed past games to produce four different statistics measuring game success and difficulty
- Allowed users to customize their game experience with four different settings, including game levels and word types, to augment the game's versatility

## Extracurriculars

### Vice-President, Novice Training

Jan. 2023 - Present

*University of Waterloo Debate Society*

*Waterloo, ON*

- Collaborated with a team of 10 executive members to coordinate tournament logistics and weekly meetings for 30+ club members each term
- Planned and successfully ran 5 tournaments for **250+** participants, one of which raised **\$200+** for charity
- Mentored **20+** new members through teaching lessons and providing constructive feedback