

# WILLIAM ZHANG

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## EDUCATION

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### University of Michigan

Ann Arbor, MI

*Bachelor of Science in Engineering - Data Science*

May 2026

Relevant Coursework: Data Structures and Algorithms, Web Systems, Computer Organization, Intro to Data Science, Discrete Mathematics

## EXPERIENCE

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### University of Michigan Nuclear Sciences Department

Ann Arbor, MI

*Research Assistant*

September 2023 - May 2024

- Lead a collaborative effort to develop an immersive **virtual reality** game aimed at teaching nuclear safety to students, leveraging **Unity** and **Oculus Quest** for an engaging learning experience
- Incorporated advanced **Uptale** technology and **3-D cameras** to create a high-fidelity extended reality environment, significantly enhancing **interactive** learning
- Developed and optimized **C#** scripts, reducing system latency by **30%** and improving **responsiveness**, facilitating a more **effective** educational tool

### Institute of Electrical and Electronics Engineers

Chicago, IL

*Student Volunteer*

July, 2023

- Assisted in planning and execution of the annual (2023) **IEEE** International Conference, **coordinating logistics** on **room monitoring** to support the conference with other **600** attendees
- Cultivated a **global** professional network by engaging with experts in the IEEE conference from over 30 countries, deepening knowledge in current **software engineering** and **services computing technologies**

## PROJECTS

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### MatchaBot

August 2024

- Developed a Discord bot, 'Matcha', utilizing **Python** and **discord.py** library, enhancing server interaction and providing high quality music playback with **FFmpeg** and **YoutubeDL**
- Enhanced community engagement by **40%** through the integration of **OpenAI GPT-4**, enabling users to dynamically interact in **real-time** directly within Discord to over **20,000** active users

### AppointmentApp

May 2024 - Current

- Integrated an appointment scheduling system with **Swift** and **SwiftUI** for **JP Foot Spa**, enhancing client flexibility in booking, modifying, and canceling appointments through an intuitive interface
- Implemented a real-time **Supabase** database to synchronize data across multiple devices, ensuring accurate and timely updates that improve operational efficiency for both customers and employees
- Reduced the time required for clients to schedule appointments by **50%**, alleviating the need for the owner to interrupt services for phone reservations, thereby enhancing both client satisfaction and operational workflow

### Personal Portfolio Website

April 2024

- Utilized **HTML** and **CSS** to create a visually appealing frontend layout that is responsive across all devices
- Implemented interactive **JavaScript** elements, such as typewriter effect and dynamic content visibility based on user's scroll position, improving navigation and overall site responsiveness

## SKILLS

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**Languages:** C++, Python, Java, Javascript, HTML, CSS, Swift, SwiftUI, SQL, C#

**Tools/Frameworks:** Git, Supabase, Microsoft Office, Pandas, Docker, Discord.py