

William Zhang

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EDUCATION

University of Michigan

Bachelor of Science in Engineering - Data Science, Minor in Ross Business

GPA: 3.59/4.00

Relevant Coursework: Data Structures and Algorithms, Web Systems, Software Engineering, Intro to Machine Learning

Ann Arbor, MI

May 2026

TECHNICAL SKILLS

Languages: Python, C/C++, Java, SQL, JavaScript, HTML/CSS, TypeScript, Swift/SwiftUI, C#

Frameworks/Libraries: React, Node.js, MongoDB, Flask, Bootstrap, Firebase, Supabase, Pandas, NumPy, discord.py

Tools: Git, Docker, AWS, Google Cloud, Azure, Jira, VS Code

EXPERIENCE

Amazon Web Services (AWS)

Incoming Software Developer Intern

- Incoming Summer 2025 on AWS Team

Expected: May 2025 – August 2025

Arlington, Virginia

Bumpups

Software Engineer Intern

- Integrate AI-driven video processing using **Python**, enhancing image and text analysis capabilities by **25%**, thereby improving the platform's interactivity for over **5,000 users**
- Develop and optimize backend services for a platform funded by **Google**, supporting a **40% increase** in user interactions and ensuring system scalability and reliability
- Collaborate with cross-functional teams to design and implement new features, reducing deployment time by **15%** through streamlined **CI/CD pipelines**, contributing to Bumpups' mission to transform video interactions

Jan. 2025 – Present

Remote

Avodah

AI Software Engineer Intern - Innovation For Impact

- Spearheaded a cross-functional team of 4 developers to create an AI sandbox application for **Avodah** using **React**, **Node.js**, and **Express.js**, cutting provider-patient **communication latency by 35%** and enhancing platform engagement for over **30,000 patients**
- Integrated an AI diarization engine that achieved **97% accuracy**, **removing manual review efforts by 60%** and significant **improving the reliability** of real-time provider-patient conversation analyses

Jan. 2025 – Present

Remote

MTutor

Project Manager - Innovation For Impact

- Led a team of two developers to refine the **MTutor** application, enhancing features and optimizing performance, resulting in a **35% increase** in responsiveness and a **20% reduction** in load times for over **600** University of Michigan students using **MongoDB**, **Node.js**, **Firebase**, and **React Native**

Sep. 2024 – Dec. 2024

Ann Arbor, MI

PROJECTS

MatchaBot

- 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**

August 2024

InstaShare

- Developed "InstaShare", a dynamic social media application, utilizing **React**, **HTML/CSS**, **Python**, and **Flask**, emphasizing features such as user registration, content management, and social interaction to boost user engagement
- Optimized web application performance and scalability on **AWS ECS** by implementing **AJAX** calls with **TypeScript** to a **REST API** and refining **SQL** data management, leading to more efficient user interactions and increased application responsiveness, **enhancing overall performance by 20%**
- Ensured **robustness** and reliability of "InstaShare" with comprehensive testing with **Cypress**

October 2024

AppointmentApp

- Integrated an appointment scheduling system with **Swift/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, enhancing both client satisfaction and operational workflow

May 2024 – Present