

# Zhixuan Chen

<https://shczx.github.io>

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## EDUCATION

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- **University of Michigan** Ann Arbor, MI  
*Master of Science in Computer Science and Engineering* *Aug 2023 – Dec 2024*
- **University of Michigan** Ann Arbor, MI  
*Bachelor of Science in Computer Science with Distinction; GPA: 3.91/4.00* *May 2020 – May 2023*
  - **Relevant courses:** Web System, UI Development, Machine Learning, Operating System
  - **Honors/Awards:** James B. Angell Scholar, University Honors

## EXPERIENCE

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- **Lifelong Learning Lab** Ann Arbor, MI  
*Research Assistant* *May 2022 - Apr 2023*
  - Built a web app with **Django** and **React.js** to simulate ER training process for medical students
  - Constructed **Dialogflow** chatbots to emulate roles of nurses and give users automatic responses
  - Used **Azure Speech service** to capture users' speech and convert chatbots' text responses into speech
  - Built a **SQLite** database to store users' mistakes and the conversations between users and chatbots
  - Improved the UI of the web app through **Bootstrap** to make it similar to a chat UI
  - Deployed the web app on **DigitalOcean**
- **University of Michigan Transportation Research Institute** Ann Arbor, MI  
*Research Assistant* *May 2022 - Aug 2022*
  - Built a desktop app with **PyQt5** and **PyVista** to help manipulate 3D parametric human body models
  - Converted the MATLAB codes on generating human body models by parameters into Python codes
  - Implemented features that enable users to adjust human models by modifying parameters, compare two models by aligning corresponding parts, and download the models in seconds
- **EECS 203 Discrete Math** Ann Arbor, MI  
*Grader* *Aug 2021 - Present*

## PROJECTS

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- **Instagram Clone**
  - Used **Flask** and **React.js** to develop an Instagram-like web app and deployed the app on **AWS EC2**
  - Implemented **REST API** to handle users' requests including getting new posts, creating/deleting a comment, and creating/deleting a like
- **C++ Thread Library**
  - Implemented a simplified C++ thread library which supports a single CPU and a CPU scheduling policy based on FIFO ordering and timer interrupt
  - Implemented basic functionalities of **mutex** and **conditional variable**

## SKILLS

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- **Languages:** C++, Python, Java, JavaScript, HTML/CSS
- **Frameworks:** Django, Flask, React.js, Vue.js, JQuery, Bootstrap, PyQt
- **Tools:** Git, Ubuntu, VS Code, Figma