

Zhixuan Chen

<https://shczx.github.io>

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EDUCATION

- **University of Michigan, Ann Arbor** Ann Arbor, MI
Bachelor of Science in Computer Science; GPA: 3.96/4.00 *Aug. 2020 – May. 2023 (Expected)*
 - **Relevant courses:** Web Systems, UI Development, Machine Learning, Computer Vision
 - **Honors/Awards:** James B. Angell Scholar, University Honors
- **The Chinese University of Hong Kong, Shenzhen** Shenzhen, China
Accounting; Transferred out *Sep. 2018 – Jun. 2020*
- **University of California, Berkeley** Berkeley, CA
Summer session *Jun. 2019 – Aug. 2019*

RESEARCH

- **Lifelong Learning Lab** Ann Arbor, MI
Research Assistant, Advised by Prof. Xu Wang *May 2022 - Present*
 - 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, Advised by Prof. Jingwen Hu *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

PROJECTS

- **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
- **Interview Preparation Website (Prototype)**
 - Designed a web app with **Figma** to help students prepare for technical interviews through mock interviews and frequently asked questions
 - Evaluated the prototype through think-aloud sessions and improved the design based on user testing

SKILLS

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