

# Yuzhe Niu

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## EDUCATION

### University of Michigan

Ann Arbor, MI

*Bachelor of Science in Engineering in Computer Engineering*

*Aug 2024 - Apr 2026(Expected)*

- GPA: 3.78/4.00
- Courses: Intro to Logic Design, Intro to Computer Organization, Web Systems, Intro to Operating System, System Design of a Search Engine

### Shanghai Jiao Tong University

Shanghai, China

*Bachelor of Science in Mechanical Engineering*

*Sep 2022 - July 2024*

- GPA: 3.33/4.00
- Courses: Data Structures & Algorithms, Programming & Elem. Data Structures, Intro to Circuits

## EXPERIENCE

### 13th SJTU Liming Cup Mechanical Innovation Competition for Freshmen

Apr 2023 – May 2023

*Leader of the Team of Four*

*Shanghai, China*

- Won the Grand Prize of the competition
- Designed and built the prototype of the robot.
- Responsible for part for the programming and debugging.

### Shanghai Jiao Tong University VEX team

June 2023 – Aug 2024

*Member of Mechanical Group of the Team*

*Shanghai, China*

- Responsible for designing mechanical structures of the robots and constructing robots of SJTU VEX team for VEX Robotics Competition.
- Built multiple prototypes for 2024-2025 VEX Competition.
- Won the Grand Prize of 2024-2025 VEX Competition of China region.

### Shanghai Baosight Software Co.

Apr 2024 – Jun 2024

*Web Systems Intern, Web Platform*

*Shanghai, China*

- Upgraded the version of the application used for the company's visualization platform, Grafana.
- Modify plugins used in old version of the application so that they work for the new version.

## PROJECTS

### EECS 485 Project: Insta485 | *React, Flask, Python, SQLite, AWS EC2*

Aug 2024 – Dec 2024

- **Templated Static Site Generator**, an Instagram clone implemented with a templated static site generator.
- **Server-side Dynamic Pages**, an Instagram clone implemented with server-side dynamic pages.
- **Client-side Dynamic Pages**, an Instagram clone implemented with client-side dynamic pages.
- **MapReduce**, a single machine, multi-process, multi-threaded server that executes user-submitted MapReduce jobs.
- **Search Engine**, a scalable search engine similar to Google or Bing.

## TECHNICAL SKILLS

**Languages:** C/C++, Python, SQL, JavaScript, TypeScript, HTML/CSS

**Technologies:** React, Flask, SQLite, AWS EC2

**Software/Tools:** VSCode, Git, Github, WSL2