

# Felix Shen

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## EDUCATION

### University of Michigan

BSE in Computer Science (Junior) - GPA: 4.0

Ann Arbor, MI

Aug 2024 – May 2027

- **Courses Taken:** EECS 489 (Computer Networks), EECS 481 (Software Engineering), EECS 445 (Machine Learning), EECS 376 (Foundations of Computer Science), EECS 370 (Computer Organization), EECS 281 (Data Structures & Algorithms)
- **Courses Taking:** EECS 497 (Human-Centered Software Design and Development), EECS 482 (Operating Systems)

## EXPERIENCE

### IGMR Lab Research Assistant | Python, C++

University of Michigan Robotics Department

Apr 2025 – Present

Ann Arbor, MI

- Developed control software for a dual-arm robotic microsurgery system with teleoperation via haptic devices
- Integrated Cyclone DDS to enable real-time, low-latency data communication between system components
- Architected data transmission framework across distributed nodes, ensuring scalability and robust performance

### BAAC Lab Research Assistant | Next.js, Spring Boot, Docker, AWS, Nginx

University of Michigan Psychology Department

Apr 2025 – Present

Ann Arbor, MI

- Programmed interactive icon array visuals for study on how data presentation affects understanding and decisions
- Customized Qualtrics surveys with JavaScript and CSS to meet complex research requirements
- Built and deployed website on AWS EC2 instance using Docker and Nginx for a vaccine decision aid study

### Full-stack Developer Intern | Vue.js, Spring Boot

Shenzhen Ningyuan Technology Co

July 2024 – Aug 2024

Shenzhen, GD

- Developed a Spring Boot backend that manages markdown api documentation in a relational database
- Wrote a frontend editing interface and associated REST APIs to streamline documentation management
- Migrated API documentation from hard-coded frontend to a backend database for dynamic retrieval

## PROJECTS

### Intervention Studies | TypeScript, Next.js, Spring Boot, Docker, AWS, Nginx

Sept 2025 – Present

- Created a platform for researchers to conduct studies on with a dashboard to manage users and study responses
- Implemented role-based auth with JWTs, displaying different pages for researchers and participants
- GitHub: <https://github.com/Blank-FS/intervention-studies>

### Ineed.io | TypeScript, React.js, Next.js, Supabase, Figma, Tailwind CSS, Git

Jan 2025 – Apr 2025

- Developed an internship tracker platform full stack website that helps students manage applications
- Conducted code inspection and refactored codebase, fixing infinite API requests bug in React useEffect
- Designed modern, intuitive UI/UX using Tailwind CSS, shadcn/ui, and Figma
- GitHub: <https://github.com/Blank-FS/michigan-hackers-ineedio-web>

### TeamUp | TypeScript, React.js, Next.js, Prisma, MongoDB, Git, Auth0

Sept 2024

- Led development of a full-stack matchmaking platform to help hackers form teams at events
- Built Next.js app with Auth0 authentication, Prisma ORM, and MongoDB Atlas
- Designed database schemas, developed CRUD APIs, and created interactive UI with mock data
- GitHub: <https://github.com/Blank-FS/mhacks-team-up>

## TECHNICAL SKILLS

**Languages:** C/C++, Java, Python, SQL, JavaScript/TypeScript

**Front-end:** HTML, CSS/Tailwind, Next.js/React, Vue.js

**Back-end:** Node.js, Spring Boot, MySQL/PostgreSQL, MongoDB, AWS, Nginx

**Developer Tools:** Git, VS Code, Bash, Docker, Maven, Postman