

# 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 370 (Intro to Computer Organization), EECS 281 (Data Structures & Algorithms), EECS 280 (Programming & Data Structures), EECS 203 (Discrete Math)
- **Courses Taking:** EECS 489 (Computer Networks), EECS 481 (Software Engineering), EECS 445 (Intro to Machine Learning), EECS 376 (Foundations of Computer Science), EECS 201 (Computer Science Pragmatics)

## 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 for real-time data distribution and low latency communication

### BAAC Lab Research Assistant | TypeScript, React.js, Next.js

University of Michigan Psychology Department

Apr 2025 – Present

Ann Arbor, MI

- Designed and built interactive icon arrays using web technologies for research study on reducing vaccine hesitancy
- Created customized Qualtrics surveys using JavaScript and CSS to meet specific research requirements

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

Shenzhen Ningyuan Technology Co

July 2024 – Aug 2024

Shenzhen, GD

- Migrated API documentation from hard-coded frontend to a backend database for dynamic retrieval
- Wrote a frontend editing interface and backend logic to streamline documentation management

## PROJECTS

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

Jan 2025 – Apr 2025

- Michigan Hackers advanced web dev team project - internship tracker platform for students to manage applications
- Performed code auditing, refactored code base, and caught infinite api request bug in useEffect dependency array
- Utilized Tailwind CSS, shadcn/ui, and Figma for a modern, intuitive UI/UX design
- GitHub: <https://github.com/Blank-FS/michigan-hackers-ineedio-web>

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

Sept 2024

- MHacks 2024 (Hackathon) project - a matchmaking platform to help hackers form teams at hackathons
- Worked as team lead on the full-stack website and collaborated with others using GitHub
- Set up Next.js application, Auth0 authentication, and Prisma ORM with MongoDB atlas
- Designed database schemas, wrote APIs that perform CRUD operations, generated mock user data using faker.js, and created interactive UI for the website
- GitHub: <https://github.com/Blank-FS/mhacks-team-up>

### Api Documentation Backend | Java, Maven, Spring Boot, Git

July 2024 – Aug 2024

- Developed a Spring Boot backend that manages markdown api documentation in database
- Used JPA/Hibernate for ORM and implemented CRUD operations for database entry modifications
- GitHub: <https://github.com/Blank-FS/api-document>

## TECHNICAL SKILLS

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

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

**Back-end:** Express.js/Node.js + Prisma, Spring Boot + JPA/Hibernate, MySQL/PostgreSQL, MongoDB, AWS RDS

**Developer Tools:** Git/GitHub, VS Code, Bash/Ubuntu, Docker