

Felix Shen

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EDUCATION

University of Michigan

Ann Arbor, MI

BSE in Computer Science (Junior) - GPA: 4.0

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++*

Apr 2025 – Present

University of Michigan Robotics Department

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*

Apr 2025 – Present

University of Michigan Psychology Department

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*

July 2024 – Aug 2024

Shenzhen Ningyuan Technology Co

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

Aniworks | *Next.js (TypeScript), Spring Boot, Docker, AWS, Cloudflare*

Nov 2025 – Present

- Engineered a full-stack anime & manga tracking platform using React and Spring Boot
- Designed RESTful APIs with secure JWT-based authentication and persistent data storage
- Containerized services with Docker and deployed to AWS using ECR, EC2, and Nginx
- Configured Cloudflare for DNS, routing, HTTPS, and reverse proxy management
- Website URL: <https://aniworks.net/>

Ineed.io | *Next.js (TypeScript), Supabase, Figma, 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 | *Next.js (TypeScript), 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

Frontend: HTML, CSS/Tailwind, React, Next.js, Vue.js

Backend: Spring Boot, Node.js, MySQL, PostgreSQL, MongoDB

Cloud & DevOps: AWS (EC2, ECR, RDS, S3, CloudFront), Docker, Nginx, Cloudflare

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