

# Shu-Wei (Frank) Hsu

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## EDUCATION

### Cornell Tech (Cornell University)

*M.S. in Information Systems with a concentration in Connective Media*

*Aug. 2023 – May. 2025*

*New York City, NY*

### National Taiwan University

*Bachelor of Science in Electrical Engineering | GPA: 3.73/4.3 (3.66/4.0)*

*Sept. 2018 – Dec. 2022*

*Taipei, Taiwan*

**Course works:** *Computer Programming, Machine Learning Algorithm, Data Structures, Computer Networks, Computer Architecture, Web Programming, Operating System,*

## SKILLS

**Programming Languages:** Python, Typescript, Javascript, HTML/CSS, C#, C++

**Web Development:** React, Nextjs, Node.js, Docker, GraphQL, TailwindCSS, Svelte, PostgreSQL, MongoDB

**Other tools:** React Native, AWS, Azure, Git, Auth0, Hasura, Docker, PayloadCMS, Figma

## EXPERIENCE

### National Taiwan University, Office of Academic Affairs

*Aug 2022 – Jan 2023*

#### *Frontend Engineer*

*Taipei, Taiwan*

- Led the end-to-end development and successful beta launch of NTU's new course selection system and information website
- Increased data-fetching efficiency in the Next.js application by integrating the stale-while-revalidate strategy
- Boosted the efficiency of API usage by leading the engineering team in the design of a comprehensive RESTful API and data schema
- Ensured code maintainability by documenting meeting notes, engineering decisions, and codebase details

### WOD.co

*Feb. 2022 – July 2022*

#### *Software Engineer Intern*

*Taipei, Taiwan*

- Boosted user engagement by implementing features using Next.js for a CrossFit workout-tracking app
- Launched a cross-platform workout TV app using React Native in two months, adopted by two CrossFit gyms in Taiwan
- Enhanced gym owner control by developing a remote-control feature for the TV app, allowing operation via mobile devices using React and GraphQL.
- Increased data visibility by designing and implementing a user workout history dashboard

## PROJECTS

### NTUCourse Neo (React, Next.js, PostgreSQL, Express.js)

*A redesigned course-planning web service for students at National Taiwan University*

- Assisted 2000+ students in course planning and gained 400+ registered users in a month
- Won the 2nd best team project of 2021-Fall Web Programming Course
- Collaborated with the Office of Academic Affairs at National Taiwan University to develop a new course information system

### My Portfolio (React, Next.js, Figma)

*A personal website showcases my skills, experience, and projects.*

- Achieved perfect PageSpeed score of 100 for both mobile and desktop devices
- Leveraged Figma components for efficient, reusable designs in a personal website

### SecurityCam (React, Next.js, MongoDB, MQTT)

*A scalable and customizable security camera service with an auto alarm system*

- Led the design of the system infrastructures and user flow
- Implemented Line Bot server to receive commands and interact with users
- Developed a React frontend with Auth0 authentication for reviewing historical camera images.

### DS Tutor (HTML, CSS, Javascript, JQuery)

*A data structure visualization tool for beginners in Data Structure*

- Built the frontend interface for users to manipulate the data structures by vanilla JavaScript, HTML, CSS, and jQuery
- Designed and implemented the animation of the transformation of the data structures by TweenJS and EaselJS