

Shu-Wei (Frank) Hsu

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EDUCATION

Cornell Tech (Cornell University)

Jacobs Technion-Cornell Dual Master of Science Degrees

MS in Applied Information Science (Technion) &

MS in Information Systems (Cornell) with a Concentration in Connective Media

Aug. 2023 – May. 2025

New York City, NY

National Taiwan University

Bachelor of Science in Electrical Engineering

Total GPA: 3.73/4.3 (3.66/4.0)

Sept. 2018 – Dec. 2022

Taipei, Taiwan

TECHNICAL SKILLS

Programming Languages: Typescript, Javascript, Python, HTML, CSS, C++

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

Other tools: React-Native

WORK EXPERIENCE

Frontend Engineer

National Taiwan University, Office of Academic Affairs

Aug 2022 – Jan 2023

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 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

Software Engineer Intern

WOD.co

Feb. 2022 – July 2022

Taipei, Taiwan

- Boosted user engagement by implementing features for a CrossFit workout-tracking app
- Launched a cross-platform workout TV app in two months, adopted by two CrossFit gyms in Taiwan
- Enhanced gym owner control by implementing a remote-controlling feature for the TV app via mobile devices
- Increased data visibility by designing and implementing a user workout history dashboard

PROJECTS

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

May 2023

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)

May 2022 - June 2022

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
- Built a frontend interface with authentication for reviewing historical camera images

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

Nov. 2021 - June 2022

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

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

May 2021 - June 2021

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