

# Shu-Wei Hsu

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## EDUCATION

### Cornell Tech (Cornell University)

Jacobs Technion-Cornell Dual Master of Science Degrees – Connective Media Concentration

Aug. 2023 – May. 2025

New York City, NY

### National Taiwan University

Bachelor of Science in Electrical Engineering

Sept. 2018 – Dec. 2022

Total GPA: 3.73/4.3 (3.72/4.0)

Taipei, Taiwan

## TECHNICAL SKILLS

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

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

**Native App Development:** React-Native

## WORK EXPERIENCE

### Frontend Engineer

National Taiwan University, Office of Academic Affairs

July 2022 – Jan 2023

Taipei, Taiwan

- Developed a brand new course selection system and course information website for NTU
- Led the development of RESTful API, including schema design and documentation
- Improved user experience by taking part in the redesign of user flow and implementing new user interface
- Optimized the application's efficiency of data-fetching by exploiting the concept of stale-while-revalidate, a HTTP cache invalidation strategy

### Software Engineer Intern

WOD.co

Feb. 2022 – July 2022

Taipei, Taiwan

- Implemented and designed features for the workout-tracking app for CrossFit athletes
- Built a cross-platform (iOS & Android) workout-displaying TV app in two months by React-Native and released in two CrossFit gyms in Taiwan
- Visualized user's historical workout data by designing and developing a new dashboard page
- Implemented a remote-controlling feature to help gym owners communicate with the TV app by mobile devices

## PROJECTS

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

May 2023

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

- Experience in using Figma's components and libraries to create efficient and reusable designs
- Achieved perfect PageSpeed score of 100 on mobile and desktop devices.

### 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 using Nodejs to receive commands and interact with users
- Built frontend interface using React for users to review historical images captured by the camera

### 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