

Eddy Hu

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EDUCATION

New York University, Tandon School of Engineering

Brooklyn, NY

May 2027 (expected)

B.S., Mathematics & Computer Science

GPA: 3.6/4.0 · Exchange: NYU Abu Dhabi (Fall 2025)

Selected Coursework: Computer Architecture, Object-Oriented Programming, Discrete Mathematics, Linear Algebra

Stanford University, Summer Session

Palo Alto, CA

Jun–Aug 2022

GPA: 3.8/4.0 (8 credits)

Selected Coursework: Data Structures, Astrophysics

EXPERIENCE

IT Operations Intern, Shanghai Data Exchange

Shanghai, China

Jun–Aug 2024

- Automated daily audit evidence with a cron-scheduled Selenium and Baidu OCR workflow that logs in, takes screenshots, extracts text, and autofills templates, reducing prep to 5 minutes.
- Configured Smokeping for concurrent monitoring across 40 hosts, improving coverage of packet loss and latency.
- Built an internal dashboard with Flask and MySQL to inventory TCP listening processes across servers, accelerating incident triage.

Data Analyst Intern, Neumetry Medical Inc.

Fremont, CA

Jul 2021–Aug 2022

- Supported a wearable-based cardiovascular study: onboarded volunteers and data collection
- Ran Python scripts to perform Fourier analysis on logged signals and annotated the top three peaks; generated plots from CSV data for investigators

PROJECTS

Sysmon - Developed a lightweight Windows system monitor using Tauri, React, and Rust (sysinfo crate) to display device info, real-time per-core CPU and memory usage, as well as disk utilization and I/O; integrated IP region lookup via Axios.

Side-Channel Attack Project - Designed a low-cost setup using an ADC and an instrumentation amplifier to measure minimal power changes on an STM32 while it runs AES128 encryption. We analyze the traces in Python to visualize leakage and demonstrate simple key-recovery.

WriteBar - A simple Firefox add-on that shows a live word count and progress bar in Google Docs. Built with JS and web-extension API.

EXTRACURRICULAR

Team Lead, NYU Robosub

Jan 2024–Present

- Motion team lead (Fall 2025 - Present) of NYU's Autonomous Underwater Vehicle (AUV) team. The team is currently preparing for the 2026 RoboSub competition.
- Implemented PID control with gyroscope feedback for robust trajectory tracking; integrated depth sensor data to ensure precise underwater positioning.
- Deployed ROS 1 on Ubuntu using Docker to simulate motion; injected gyro and sensor data manually to validate program logic.

Lab Member, NYU OSIRIS Lab

Oct 2024–Present

- Member of NYU's student-run cybersecurity research lab; lead of the SCA project, completed the OSIRIS Recruit CTF, and regularly participates in weekly meetings and CTF scrims.

SKILLS

Languages: Python, C++, Rust, TypeScript

Frameworks: React, Flask, Tauri, ROS, Selenium

Tools: Git, Linux, Docker, MySQL, Raspberry Pi

Other: Dean's List (NYU); Bilingual — English & Mandarin