

Po-Hao (James) Chang

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Education

- **Carnegie Mellon University** Mountain View, CA
Master of Science in Software Engineering Aug. 2022 - Dec. 2023 (Expected)
- **National Taiwan University** Taipei, Taiwan
B.S. in Engineering Science and Ocean Engineering, College of Engineering Sep. 2018 - Jan. 2022
 - Area of concentration: EECS
 - GPA: **4.07/4.3** (Overall) - Top 5% in the class, 5 Presidential Awards.
 - Courses: Introduction to Computer and Programming, Data Structures, Object-Oriented Programming, Discrete Mathematics, Probability and Statistics, Numerical Methods, Machine Learning, Parallel Computing, Database Systems, Web Programming

Experience

- **Office of Academic Affairs, National Taiwan University** Taipei, Taiwan/Remote
Full Stack Developer Jun. 2022 - Aug. 2022
Worked on the next-gen course planning tool (NTUCourse Neo) with the Computer Information Management Division.
 - Migrated from MongoDB to PostgreSQL and redesigned database structure, which results in 50% query speed increase.
 - Implemented data cache to live parsing data to reduce loads of school websites.
 - Led backend development team to integrate services with existing school interfaces and migrate to self-hosting infrastructure.
- **Trend Micro Inc.** Taipei, Taiwan
Cloud Development Engineer Sep. 2021 - Mar. 2022
Software Engineer Intern July 2021- Aug. 2021
Developed and tested backend services in Trend Micro Vision One™ Device Vulnerability Scanning Service team.
 - Implemented 80% test cases of all features in two weeks, successfully identified two bugs before major release.
 - Designed and deployed CI/CD and test pipeline through Jenkins to reduce 50% of efforts on building verification.
 - Implemented Terraform to modify cloud infrastructure configurations.
 - Promoted to contract-based software engineer after internship for outstanding performance.

Projects

- **NTUCourse Neo Team** Taipei, Taiwan/Remote
National Taiwan University Nov. 2021 - Jun. 2022
A redesigned course planning web service for students in National Taiwan University.
 - Assisted 5000+ students in course planning and gained 1500+ registered users.
 - Designed frontend interface using React to provide intuitive user experience.
 - Defined RESTful API specification and implemented JWT authorization with Auth0 service.
 - Implemented serverless functions to parse course waitlist data from the official course selection system.
 - Acquired by Office of Academic Affairs of National Taiwan University.
- **MineNTU Team - National Taiwan University in Minecraft** Taipei, Taiwan/Remote
National Taiwan University May 2021 - Dec. 2021
Building a virtual campus in Minecraft to facilitate students' social life despite distance learning.
 - Adopted scrum-based methodology and shortened development cycle to release new buildings biweekly.
 - Released a verification platform paired with Discord bots in a week to process a maximum of 800 registrations per day.
 - Organized a 1000-player-grade Minecraft graduation ceremony based on Azure in two weeks.
 - Donated the Minecraft school map to the Gallery of NTU History.

Languages and Skills

- Languages: Taiwanese Mandarin (*native*), English (*proficient*), Japanese (*beginner*).
- Skills: Python, C++, JavaScript, React, Git, Docker, Microsoft Azure, Java, MongoDB, PostgreSQL, Groovy (Jenkins)