

Po-Hao (James) Chang

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Education

Carnegie Mellon University

Master of Science in Software Engineering

- Courses: Foundations of Software Engineering, Foundations of Computer Systems, Intro. to Information Security

Mountain View, CA

Aug 2022 - Dec 2023

National Taiwan University

Bachelor of Science in Engineering Science and Ocean Engineering

- 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.

Taipei, Taiwan

Sep 2018 - Jan 2022

Experience

Office of Academic Affairs, National Taiwan University

Full Stack Developer

Taipei, Taiwan/Remote

Jun 2022 - Aug 2022

Developed next-gen course planning tool (NTUCourse Neo) with the Computer Information Management Division.

- Migrated from MongoDB to PostgreSQL and redesigned database structure to achieve 50% query speed increase.
- Designed data cache to live parsing data to reduce loads of school websites.
- Led backend team to integrate services with existing school interfaces and migrate to self-hosted infrastructure.

Trend Micro Inc.

Cloud Development Engineer

Software Engineer Intern

Taipei, Taiwan

Sep 2021 - Mar 2022

Jul 2021 - Aug 2021

Developed and tested backend services in Trend Micro Vision One™ Device Vulnerability Scanning Service team.

- Completed 80% Behave (Python) test cases in two weeks and 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 scripts to modify cloud infrastructure configurations.
- Promoted to contract-based software engineer after internship for outstanding performance.

Projects

NTUCourse Neo Team

National Taiwan University

Taipei, Taiwan/Remote

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.
- Deployed serverless functions on Azure to parse course waitlist data from official course selection system.
- Acquired by Office of Academic Affairs of National Taiwan University.

MineNTU Team - National Taiwan University in Minecraft

National Taiwan University

Taipei, Taiwan/Remote

May 2021 - Dec 2021

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 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.

Java (Object Oriented Programming course project)

National Taiwan University

Taipei, Taiwan

Feb 2020 - Jun 2020

Designed database and UI of Java-based application for tour booking.

- Developed a custom layered data structure to achieve 50% faster query speed than other teams.
- Implemented a customized, user-friendly interface by creating custom classes.
- Won 2nd place in the class competition.

Skills and Languages

Skills: Python, JavaScript, C++, Java, React, Git, Docker, Microsoft Azure, MongoDB, PostgreSQL, Jenkins, Behave
Languages: Taiwanese Mandarin (Native), English (Proficient), Japanese (Beginner)