Po-Hao (James) Chang

Contact Information

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EDUCATION

Carnegie Mellon University, Mountain View, CA

2022 - 2023 (Expected)

Last update: Aug. 8, 2022

M.S. in Software Engineering, College of Engineering

• Incoming student of class Fall 2022

National Taiwan University, Taipei, Taiwan

2018 - 2022

B.S. in Engineering Science and Ocean Engineering, College of Engineering

- Area of concentration: EECS
- GPA: **4.07/4.3** (Overall) Top 5% in the class.
- 5 Presidential Awards (Fall 2018, Spring 2019, Fall 2019, Spring 2020, and Fall 2021)
- Related 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

Remote

Full Stack Developer

Aug. 2022 - Present

Working on the next-generation course planning tool (previously NTUCourse Neo) with the Computer Information Management Division.

- o Migrated from MongoDB to PostgreSQL and redesigned database structure, which results in a 50% query speed increase.
- Implemented data cache to live parsing data to reduce loads of school websites.
- Leading backend development team to integrate services with existing school interfaces and migrate to self-hosting infrastructure.

• NTUCourse Neo Team

Taipei, Taiwan / Remote

Co-Founder, Full Stack Developer

Nov. 2021 - Aug. 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.

• Trend Micro Inc.

Taipei, Taiwan

Cloud Development Engineer

Sep. 2021 - Mar. 2022

Software Engineer Intern

July 2021- Aug. 2021

Developing and testing backend services in Trend Micro Vision One™ Device Vulnerability Scanning Service team.

- o 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.

• MineNTU Team - National Taiwan University in Minecraft

Remote

Co-Founder, Software Engineer

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.
- o 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.

Projects

• Java (Object Oriented Programming course project)

Feb. 2020 - June 2020

- Designed database and UI of a Java-based application for tour booking.
- Developed custom layered data structure to achieve 50% faster query speed than other teams.
- Implemented a customized, user-friendly interface by creating custom classes.
- \circ Won 2^{nd} place in the class competition.

• FIRST Tech Challenge (FTC) Championship

Jan. 2016 - Oct. 2016

Participated as a member of the Taiwan national team to compete with 128 international groups.

- Designed and built robots with TETRIX components to solve simulated rescue tasks.
- o Modified the Java program to control robots via Android devices.
- Organized engineering reports and presentations to convey design ideas.

VOLUNTEERING AND ACTIVITIES

• NTU Photography Club

Taipei, Taiwan

President

Jan. 2020 - July 2020

- Trained 50 staff to organize online lectures; kept providing club activities despite restrictions to public venues due to Covid-19.
- Launched new courses and internships for 100+ club members to enhance the quality of lectures during the pandemic.

• Cyan Feather Volunteer Group

Kaohsiung, Taiwan

 $Consultant\\ Leader$

Jan. 2019 - Aug. 2022

Jan. 2018 - Aug. 2018

• Led a team of 40 volunteers in organizing courses and activities for students in remote areas.

Languages and Skills

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