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CONTACT Information

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## EDUCATION National Taiwan University (NTU), Taipei, Taiwan

2018 - 2022 (expected)

- B.S.E in Department of Engineering Science and Ocean Engineering (Area of concentration: EECS)
- GPA: **4.06/4.3** (Overall) Top 5% in the class.
- 4 Presidential Awards (Fall 2018, Spring 2019, Fall 2019, and Spring 2020)
- Related courses: Introduction to Computer and Programming, Data Structures, Object-Oriented Programming, Discrete Mathematics, Probability and Statistics, Numerical Methods, Machine Learning, Automatic Control, Parallel Computing, Database Systems, Web Programming, Design and Application of Virtual Instruments

#### EXPERIENCE

#### • Trend Micro Inc.

Taipei, Taiwan

Cloud Development Engineer Software Engineer Intern Sep. 2021- Present July 2021- Aug. 2021

Developing and testing cloud-based device vulnerability scanning service.

- $\circ$  Implemented 80% test cases of all features in two weeks, successfully identified two bugs before major release.
- $\circ\,$  Designed and deployed CI/CD and test pipeline through Jenkins to reduce 50% of efforts on building verification.
- Used Terraform to modify cloud infrastructure and configurations.
- Promoted to contract-based software engineer after internship for outstanding performance.

# • MineNTU Team - National Taiwan University in Minecraft

Remote

Co-Founder, Software Engineer

 $\mbox{May}$ 2021 - Present

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 a Discord bot in a week to process a maximum of 800 registrations per day.
- Organized a 1000-player-grade Minecraft graduation ceremony based on Azure cloud platform in two weeks.
- Preparing the donation of the Minecraft school map to the Gallery of NTU History.

### • FIRST Tech Challenge (FTC) Championship

St. Louis, USA

Mechanical and Java Software Engineer

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.
- Modified the Java program to control robots via Android devices.
- Organized engineering reports and presentations to convey design ideas.

#### Research

### • Nano-BioMEMS Group, National Taiwan University

Sep. 2020 - Jan. 2021

Advisor: Prof. Wen-Jong Wu

Topic: Development and Simulation of Piezoelectric Micro Pump for cooling applications.

- Investigated properties and applications of piezoelectric materials.
- Designed piezoelectric micropumps to provide chip cooling solutions for small chassis.
- o Simulated piezoelectric actuator and micropump chamber performance in COMSOL.

#### PROJECTS

## • NTUCourse Neo (Web Programming course project)

Nov. 2021 - Present

A redesigned course planning web service for students in National Taiwan University.

- Assisted 2000+ students in course planning and gained 400+ registered users in a month.
- o Designed frontend interface using React to provide intuitive user experience.
- Defined RESTful API specification and implemented JWT with Auth0 service.
- Currently implementing a data proxy based on Azure Function App to parse live course waitlist data from the NTU course selection system.

### • Java (Object Oriented Programming course project)

Feb. 2020 - June 2020

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

### • A .io Game

June 2020 - Dec. 2020

Developed an online multiplayer mini game based on open-source projects.

#### • Memez - a Discord bot

Jan. 2021 - June 2021

- Developed a personal Discord bot using Python to assist daily tasks.
- Designed functions to fetch and parse Formula 1 game schedules from public APIs.

VOLUNTEERING AND ACTIVITIES

# • GreenFeather Volunteer Group

Kaohsiung, Taiwan

Former leader

Jan. 2018 - Present

- Led a team of 40 volunteers in organizing courses and activities for students in remote areas.
- Used the Coding Ocean table game to create the Logic&Code 101 course for primary students.

### • NTU Photography Club (NTUPHOTO)

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.

## • Kaohsiung Group Association of NTU

Taipei, Taiwan

Vice President

Aug. 2019 - July 2020

- o Organized a three-day freshman camp for 50 freshmen from Kaohsiung, Taiwan.
- Developed a number-guessing app for the *Escape the Room* game by C++.

LANGUAGES AND SKILLS

- Languages: Taiwanese Mandarin (native), English (proficient), Japanese (intermediate).
- Skills: C/C++, Python, Java, JavaScript (React), Docker, Azure cloud service, Groovy (Jenkins), LabView, MATLAB, COMSOL Multiphysics.