

Cheng-Hsiao Tsai

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Github: <https://github.com/a23657055>

Portfolio: <https://www.cakeresume.com/portfolios/02ccc2>

Work Experience

Institute for Information Industry (III)

Taipei, Taiwan

Backend Engineer

Oct 2021 – Present

- Led backend development, designing and implementing APIs and database schemas to ensure product efficiency, security, and scalability.
- Researched, integrated, and implemented new technologies and opensource solutions to enhance product functionality and team productivity.
- Conducted code reviews, mentored team members, and facilitated knowledge sharing to improve overall team performance.

Synnex Technology International Corporation

Taipei, Taiwan

Software Engineer

Mar 2020 – Oct 2021

- Developed ERP system features, focusing on large SQL queries for report generation.
- Created automated scheduling and workflow simplification tools to enhance user efficiency and reduce labor costs.

Education

National Chengchi University (NCCU)

Taipei, Taiwan

Master of Science: Applied Math

Sep 2016 – Sep 2019

- **Thesis:** Survey on Deep Learning with Imbalanced Data Sets
- **Teaching Assisant:** Calculus and Discrete Mathematics

National Chung Hsing University (NCHU)

Taichung, Taiwan

Bachelor of Science: Applied Math

Sep 2012 – Jun 2016

Additional

• Programming Language:

Proficient in Python and SQL, Familiar with Java and Javascript.

• Technical Skills:

- ✧ Frontend: HTML, CSS, Bootstrap, jQuery, Vue.
- ✧ Backend: FastAPI, Flask, Strawberry GraphQL, Spring MVC.
- ✧ Database: MySQL, Postgres, MongoDB, Elasticsearch.
- ✧ Cybersecurity: EDR, NDR, Malware Detection, Sigma Rule, Yara Rule.
- ✧ Others: Git, Docker, Airflow, MinIO, Nats, Caldera, Deep Learning.

Achievements

RansomHunter, R&D 100 Award Winner

Taipei, Taiwan

Lead Developer

Oct 2022

- Led the development of RansomHunter, an AI-powered module for ransomware detection, using static and dynamic analysis to resist threats from variant such as adversarial.

Interns Project Competition

Taipei, Taiwan

Mentor for Summer Interns

Jun 2023 – Aug 2023

- Guided the development of an email attachment detection system integrated with Microsoft API. Achieved **second place** in a company-wide project competition with a team of summer interns.

Certification

Big Data Analyst

Taipei, Taiwan

Digital talent competency assessment passer

Apr 2023

Extracurricular

General Education Course: Python Programming

Taipei, Taiwan

National Taiwan University Guest Speaker

May 2024

- Shared personal experiences in job hunting and learning Python, inspiring students with a story of transitioning from a beginner to an engineer.