

## TeHsin, Chen

Phone: +886-910457832 | Email: tehsinchen1112@gmail.com

LinkedIn: [linkedin.com/in/tehsinchen](https://www.linkedin.com/in/tehsinchen) | Work Portfolio: [tehsinchen.github.io/portfolio](https://tehsinchen.github.io/portfolio)

## Professional Summary

Highly motivated and collaborative Software Engineer with 5+ years of experience in signal analysis. Expertise includes deep learning for fully automated systems, machine learning for human activity recognition on smartwatches, and DevOps with cloud platforms.

## Work Experience

### Cyweemotion Group

*Senior Software Engineer*

**Jan 2024 – Present**

- Team management with the manager includes hiring, mentoring, and cross-functional communication.
- Designed and implemented comprehensive Continuous Integration (CI) processes using GitLab and AWS.
- Led and managed a key solution development project with over 10 team members, focusing on code reviews, problem-solving, and technical guidance.

### Cyweemotion Group

*Software Engineer*

**Jul 2021 – Dec 2023**

- Led a team of 6 engineers to provide internal cloud solutions using AWS.
- Developed hand-gesture detection algorithms for smartwatches, including finger rubbing and clenching detection.
- Implemented various human activity recognition models for smartwatch.
- Integrated sensor fusion techniques with the Unscented Kalman Filter (UKF) using accelerometer and gyroscope data.

### Academia Sinica

*Research Assistant*

**Sep 2019 – Jul 2021**

- Co-developed the Phantom SDK for Python in collaboration with Vision Research Inc.
- Developed a fully automated system for image segmentation and classification using deep learning techniques.
- Applied signal analysis and image processing on video to reveal the signal of 5nm nano-particles.
- Built an advanced optical system to study gold nanoparticles as small as 5nm using high-resolution cameras.

## Education

### National Cheng Kung University

*Master of Science (MS), Physics*

**2016 – 2018**

- GPA: 4.11 / 4.3
- Honors: Inducted into The Phi Tau Phi Scholastic Honor Society.
- Focused on precision measurement and theoretical modeling.

## Skills

- **Programming Languages:** C/C++, Python
- **Expertise:** Signal Analysis, Algorithm Architecture, Machine Learning, DevOps/ MLOps
- **Platforms:** AWS, Docker, GitLab CI
- **Physics:** Modeling, Optics

## Certifications

- AWS Certified Cloud Practitioner

## Languages

- English: Professional Working Proficiency
- Mandarin: Native or Bilingual Proficiency