

Meng-Ting Chung

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PROFESSIONAL SUMMARY

Software engineer specializing in full-stack development, data engineering, and cybersecurity analytics. Experienced in building scalable web applications using React, Next.js, Django, and PostgreSQL, and developing machine learning systems for malware detection, phishing detection, and behavioral security analytics. Background in information management and applied security analytics with a focus on AI-driven automation and data-centric security systems.

Work Experience

Full-Stack Developer (Volunteer) – AtSquareOne, New York (Remote) | Feb 2026 - Present

- **Architected and delivered a scalable full-stack platform** using **React, Next.js, Django REST Framework**, and **PostgreSQL**, enabling **production-grade workflows** with a **modular CMS (Wagtail)** and **responsive UI**, improving **system maintainability** and **deployment efficiency**.
- Redesigned **backend systems** including **Stripe webhook processing** and **transactional email workflows (OTP, payment confirmations)**, reducing **payment-related failures** by approximately **30–40%** and improving **transaction reliability**.
- Built an **AI-assisted content optimization workflow** using **ChatGPT, Gemini**, and **NotebookLM** in a **human-in-the-loop pipeline**, improving **content production efficiency** by **3–5×** through **iterative prompt refinement** and **review cycles**.
- Designed the architecture of a **Learning Management System (LMS)** with a focus on **maintainability, reliability**, and **scalability** to support future development and system enhancements.

Research Assistant – Office of Research, Assessment, and Grants, The University of Findlay (UF), Ohio | Aug 2023 - Dec 2025

- **Applied statistical methods** including **ANOVA, chi-square tests, and t-tests** to identify **student mobility** and **retention patterns** for institutional decision-making.
- Implemented **K-Means clustering (scikit-learn)** to automate **institutional review processes**, improving scalability across institutional datasets spanning **1,000+ universities**.
- Built a **PowerApps-based data collection system** for **student withdrawal tracking**, improving **research workflow efficiency**.
- Designed and implemented an **ETL pipeline** using **Python (pandas), SharePoint**, and **Excel** to transform **institutional datasets (IPEDS, Taskstream)** into **Power BI dashboards** for **academic reporting** and **decision-making**.
- Provided technical support for **Taskstream** access issues, improving **accessibility** of the student assessment system.
- Delivered **VR hardware installation, troubleshooting, and demonstrations** for **300+ high school students**, enhancing hands-on **technology exposure** at a regional Career Expo simulation station.

Android Developer – Times Transform Taiwan Co., Ltd., Taipei, Taiwan (Remote) | Feb 2021 - Oct 2022

- Developed **Android e-commerce application** using **Kotlin** and **Java**, supporting **product browsing, cart, order management**, and **membership features**.
- Collaborated via **GitHub pull requests** for **version control** and **code review**.
- Worked in **Agile (Scrum) teams** with **UI/UX designers** and **backend engineers** to deliver **features** and improve **system integration**.
- Integrated **REST APIs** and **SQL-based data models** to ensure **transactional consistency** and **system reliability**.

Student Assistant – National Taipei University of Business (NTUB), Taipei, Taiwan | Oct 2021 – Jun 2021

- Assisted with administrative and clerical tasks using **Microsoft Word** and **Excel** to support daily operations.
- Provided basic **Excel instruction** to community members, promoting **digital literacy** and **technology adoption**.
- Supported **classroom technology** and **educational equipment** by troubleshooting issues and assisting **instructors** and **students**.

Education

Master of Science, Applied Security and Analytics (MSASA) – UF | Sep 2023 - Dec 2025

Coursework: Applied Security Principles, Statistics Methods in Business Analysis, Data Mining for Decision Making (R), Data Visualization, Risk Management for Information Systems, Project Management, Secure Coding (C++), Software Engineering

Bachelor of Science, Information Management – NTUB | Sep 2019 - Jun 2021

Coursework: Object-Oriented System Analysis and Design, Discrete Mathematics, Management Information Systems, Database Management (SQL), Data Mining and Big Data Analysis (SPSS), **Cloud Data Center Practices, Computer Networks, Linux System Administration**

Associate Degree, International Business – NTUB | Sep 2014 - Jun 2019

Completed Coursework: Business Management, Economics, Accounting, Finance and Financial Management, International Markets Analysis, Marketing Research and Management, Supply Chain Management, International Trade, Japanese

PROJECTS & RESEARCH

Malware Detection (Machine Learning & Deep Learning) – Capstone Project, UF | Dec 2025

- Conducted **comparative analysis of machine learning and deep learning models (CNN, LSTM, GRU)** for **malware classification** using **API call behavior data**, achieving **>95% accuracy**.
- Engineered **static and behavioral features** including **API frequency patterns** and **opcode sequences** for **model training**.
- Utilized **CAPE Sandbox** for **dynamic analysis**, along with **REMnux**, **VirusTotal**, and **ProcMon** to extract **indicators of compromise (IOCs)**.

Phishing Detection (Generative AI) – Ohio Information Security Conference, Dayton, Ohio | April 2025

- Developed a **phishing email detection system** using **machine learning and generative AI**, achieving **>95% accuracy** against evolving phishing patterns.
- Generated **synthetic datasets** using **local LLMs (Ollama Mistral)** and **Hugging Face models** to improve **dataset balance and variability**.
- Conducted **large-scale experiments** across a **12-machine lab infrastructure** to evaluate **model robustness** against **adversarial phishing behaviors**.

TECHNICAL SKILLS

- **Security & Observability:** Splunk, Wazuh, Sysmon
- **Data & Machine Learning:** PyTorch, scikit-learn, Pandas, NumPy
- **Cloud & DevOps:** AWS, Azure, Docker, CI/CD, Git, GitHub, Vercel, Render
- **Backend & Full Stack:** Django, FastAPI, Spring Boot, React, Next.js, PostgreSQL, MySQL, REST APIs
- **AI Systems:** Generative AI, RAG pipelines, LLM applications, prompt engineering

CERTIFICATIONS & PROFESSIONAL TRAINING

- AWS ML Specialty (Udemy, 2026) | Microsoft Security & Auth (2026) | AI for Cyber Security (Macquarie, 2025) | IBM Malware Analysis (2025) | DeepLearning.AI Neural Networks + Optimization (2025) | .NET Backend (Microsoft, 2025) | GraphQL API (Board Infinity, 2025) | PowerShell (Pearson, 2026) | DevOps (Microsoft, 2026)

Honors & Awards

Student of the Year (Program Recognition) – MSASA, UF | Dec 2025

- Recognized through faculty nomination for academic excellence, leadership, and service contributions within the MSASA program and broader campus community.

Student Employee of the Year – Research Assistant, UF | April 2025

- In recognition of demonstrating the highest level of excellence in the areas of reliability, quality of work, initiative, professionalism, and uniqueness of work contribution.

Membership in The Honor Society of Phi Kappa Phi – MSASA, UF | Sep 2024

- Membership invitation indicates recipients are among the top-performing students academically. Phi Kappa Phi invites the top 7.5% of Juniors, 10% of seniors, and 10% of graduate students.

Spring 2023 Dean's List – UF, Ohio | March 2023

- To earn this achievement, a student must attain a grade point average of at least 3.5 on a 4.0 scale.

Academic Leadership & Community Engagement

Volunteer, Culture Connection Class – UF | 2023 – 2024

- Promoted cultural awareness and community engagement by organizing cross-cultural activities for students and local residents.
- Represented Taiwanese culture through educational presentations and cultural exchange events, fostering global understanding within the Findlay community.

Volunteer Singer, University Choir – UF | 2023 – 2025

- Participated in choir performances supporting campus and community events.
- Contributed as a tenor vocalist, helping maintain balanced vocal arrangements and performance quality.

Leader, Information Technology Section, Rural Volunteer Team – NTUB | Oct 2020 – Jun 2021

- **Led** the planning and delivery of **technology-focused educational programs** for children in rural communities.
- **Designed and taught** interactive **digital literacy lessons** to improve students' **technology skills** and confidence.
- Demonstrated **Augmented Reality (AR)** applications using **Quiver** through **virtual learning sessions** for elementary school students.

- Instructed middle school students on **keyboard shortcuts** and **productivity tools** to improve **computer efficiency** and **digital proficiency**.

Leader, Equipment Section | International Business Student Association & Guitar Club – NTUB | Oct 2016 – Dec 2018

- Managed audiovisual equipment, musical instruments, and event resources to support student organization activities and performances.
- Coordinated equipment setup, testing, and troubleshooting to ensure smooth execution of campus events and live performances.
- Maintained inventory records and assisted with logistics planning for association activities and concerts.