

## Meng-Ting Chung

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### PROFESSIONAL SUMMARY

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Software engineer specializing in **full-stack systems**, **machine learning**, and **cybersecurity analytics**. Experienced in building **scalable web platforms (React, Next.js, Django, PostgreSQL)**, **ML-driven security systems** and **data pipelines for anomaly detection and behavioral analytics**.

### PROFESSIONAL EXPERIENCE

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**Full-Stack Developer (Volunteer)** – AtSquareOne, NY (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 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 ~30–50%** and improving **transaction reliability**.
- Built **AI-assisted content optimization workflow** using ChatGPT, Gemini, and NotebookLM in a human-in-the-loop setup, increasing **content throughput by ~3–5×** through iterative prompt refinement and feedback loops.

**Research Assistant** – The University of Findlay, OH | Aug 2023 – Dec 2025

- Applied **statistical analysis (ANOVA, Chi-Square, 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 **1,000+ universities**.
- Built **PowerApps-based data collection system** for student withdrawal tracking, improving research workflow efficiency.
- Designed **ETL pipeline using Python (pandas), SharePoint, and Excel (PivotTables, Power Query)** to transform raw data into **Power BI dashboards for institutional reporting**.

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

- Developed and shipped a **B2C Android e-commerce application (Kotlin/Java)** supporting product browsing, cart, order management, and membership systems.
- Designed **SQL-based data models** and integrated backend APIs to ensure **transactional consistency, data integrity, and system reliability** across mobile workflows.

### PROJECTS & RESEARCH

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**Malware Detection (Machine Learning & Deep Learning)**

- Conducted **comparative evaluation of machine learning and deep learning models (CNN, LSTM, GRU)** for **malware classification and anomaly detection** using API call behavior data, achieving **>95% accuracy**.
- Applied **static feature engineering** including **API call frequency, opcode/API patterns, and behavioral summaries** to construct datasets for **ML and sequence-based deep learning models**.
- Leveraged **public malware datasets from Kaggle** to ensure **data quality, reproducibility, and robust model generalization across malware families**.

**Phishing Detection (Generative AI):**

- Built a phishing email detection system using machine learning and generative AI, achieving **>95% classification accuracy**, targeting **evolving email-based phishing attack patterns in real-world environments**.
- Leveraged **local LLMs (Ollama Mistral)** and **Hugging Face models** to generate diverse synthetic phishing and legitimate email datasets, improving **class balance and variability**.
- Applied **reference-guided generation** with real-world phishing/benign emails and **de-duplication strategies**, and evaluated multiple NLP classifiers on synthetic and real datasets using **parallelized experiments across 12 machines in a local lab environment** to improve robustness against **adversarial phishing behaviors**.

### TECHNICAL SKILLS

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- Programming Languages: Python, JavaScript, TypeScript, Java, Kotlin, C++
- Full-Stack & Backend: React, Next.js, Django, FastAPI, REST APIs, PostgreSQL, MySQL, HTML, CSS, Tailwind CSS
- Data & Machine Learning: Pandas, NumPy, scikit-learn, PyTorch, Machine Learning
- Cloud & DevOps: AWS, Azure, Docker, CI/CD, Git, GitHub, Vercel
- Data Visualization: Power BI, Tableau
- AI & Applied Systems: Generative AI, RAG, Prompt Engineering, LLM Applications

### EDUCATION

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- **MS, Applied Security and Analytics** – The University of Findlay, OH | Sep 2023 – Dec 2025  
Phi Kappa Phi (Top 10%), Dean's List (GPA: 3.5+), Student of the Year
- **BS, Information Management** – National Taipei University of Business, Taiwan | Sep 2019 – Jun 2021
- **Associate, International Business** – National Taipei University of Business, Taiwan | Sep 2014 – Jun 2019

### CERTIFICATIONS & PROFESSIONAL TRAINING

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- AWS Machine Learning Specialty (Udemy), Microsoft Security & Authentication (Coursera), IBM Malware Analysis (Coursera)