

Ting-Yu (Darrius) Chen

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Software Engineer with 4+ years of experience building data-intensive applications, backend systems, and AI-powered tools.

Experienced in Python, full-stack development, large-scale data processing, workflow automation, and applied AI systems.

Work Experience

Institute for Information Industry

Taipei, Taiwan

Software and Data Engineer

(Jun 2021 – Mar 2026)

- Developed PQ-SAT, a cryptographic inventory and analytics platform that processes 8M+ TLS network records to automate asset discovery, compliance assessment, and security reporting.
- Built MalwareMind, a CNN-based malware detection platform that transforms executable files into image-based representations and achieves over 95% classification accuracy.
- Developed backend tools and APIs for cybersecurity compliance intelligence, integrating structured framework mappings with LLM-assisted retrieval to improve regulatory cross-referencing and knowledge discovery.
- Built automated web scraping and data extraction pipelines using Python, Requests, and Selenium, with custom parsing logic for inconsistent semi-structured HTML sources.

Technical Skills

- **Languages:** Python, TypeScript, JavaScript, SQL, Golang
- **Backend & Web:** FastAPI, Flask, Next.js, React, REST APIs, GraphQL
- **Data & Analytics:** PostgreSQL, OpenSearch, DuckDB, Polars, Pandas
- **AI & Machine Learning:** TensorFlow, PyTorch, LangChain, Hugging Face, RAG
- **Infrastructure & Tools:** Linux, Git, Docker, Airflow, Bash

Education

National Taiwan University of Science and Technology

Taipei, Taiwan

B. S. Industrial Management, Minor in Computer Science

(Sep 2019 – Jun 2023)

RWTH Aachen University

Aachen, Germany

Exchange Program, Faculty of Business and Economics

(Oct 2022 – Feb 2023)

TU Berlin Winter University Online Berlin, Germany

Data Science with Python (Grade: 1.3)

(Jan 2021)

LEADERSHIP & ACTIVITIES

Data Analysis Club, NTUST

Taipei, Taiwan

Co-founder & President.

Sep 2019 – Jun 2023

- Founded and led a university data analysis club, organizing 30+ technical workshops and mentoring students in Python and data analytics.