

Veronica Lukita

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Software & AI Engineer (AI Systems, Cloud & Full-Stack Development)

High-performing Computer Science graduate with hands-on experience in software engineering, AI system integration, and cloud-based development. Proven ability to design and implement LLM-powered features and scalable cloud systems across academic and industry projects. Frequently recognized as the go-to group leader for complex programming assignments and collaborative projects during university studies. Committed to continuous learning and delivering reliable, high-quality results.

Currently working at Trend Micro under a one-year contract and seeking full-time software engineering roles with exposure to AI-enabled systems.

Education

B.Sc. in Computer Science and Information Engineering GPA 4.16
National Taiwan University of Science and Technology Sep 2021 – Jan 2025

- Specialized in **data structures, software development, AI integration, and DevOps practices.**
- Delivered end-to-end software projects, integrating AI-driven functionality within full-stack development environments.
- Frequently assumed **technical leadership roles** in team projects, coordinating system design, project lifecycle planning, task breakdown, and cross-functional integration.
- Worked alongside faculty staff as a **Teaching Assistant for Data Structures**, developing C/C++ programming assignments, examination design and grading, and providing in-class explanations of core data structure concepts and theories to help students grasp key concepts and reinforce algorithmic thinking.

Key Project: DubSync – Multi-Model AI Lip Synchronization System

Description: a **multi-model AI pipeline** that synchronizes dubbed audio to live-action video, supporting **multiple faces** and **dynamic speaker detection**.

- Led end-to-end project execution by defining system architecture, project scope, development phases, requirements breakdown, and integration strategy.
- Coordinated regular team meetings to drive communication, task allocation, and cross-module integration, ensuring aligned model outputs and runtime performance.
- Successfully delivered a working end-to-end demo, showcasing accurate multi-actor lip synchronization and gaining experience in model orchestration, performance trade-offs, and real-time system constraint

Work Experience and Internships

Cloud Platform Engineer Taipei, Taiwan
Trend Micro Apr 2025 – Apr 2026 (1 Year Contract)

- Developed an **agentic LLM-powered Retrieval-Augmented Generation (RAG)** system that interprets user prompts for precise knowledge retrieval and generates accurate, context-aware answers using **Azure services**.
- Processed unstructured PDF data from seller-submitted sales cases into structured, filterable **SQL** datasets to populate AI knowledge base.
- Enhanced and debugged malware detection software, resolving issues with automated submissions and identifying root causes through log and code analysis.

Cloud Developer Intern Taipei, Taiwan
eCloudValley Digital Technology Jul – Oct 2024

- Analyzed and visualized complex datasets to deliver actionable business insights.
- Designed and developed an **interactive cloud-based analytics dashboard**, hosted on an **AWS Linux server**, with interactive data visualizations and analytics using **AWS services**.
- Integrated an **LLM-powered chatbot with LLM agents** to enhance **data analytics** and improve user interactions within the dashboard.

Research Assistant

Mobilizing Information Technology Lab, NTUST

Taipei, Taiwan

Aug – Dec 2023

- Developed and integrated new features into a virtual assistant program written in **C#**.
- Enhanced **GUI design** using **XAML** to ensure seamless integration with newly added features.
- Modified and evaluated **machine learning models** for **image classification** using **Scikit-learn** and **PyTorch** in a Linux environment.

Data Integration Developer

PD Parahiangan Jaya

Bandung, Indonesia

Jul 2023

- Fully designed and developed a price-checking web application using **Node.js** and **Express.js**.
- Integrated the web app with a **Firebird database**, enabling real-time pricing queries.
- Facilitated remote access of the web app within the local network.
- Collaborated remotely with teams in Indonesia and Taiwan.

Skills

Technical Skills:

Python, Java, C/C++, C#, JavaScript (Node.js, Express.js), Azure, AWS, Large Language Models (LLMs), Agentic AI, Multi-agent AI Systems, MySQL, PostgreSQL, MongoDB, Git/GitHub

Collaborative Skills:

Technical leadership, Ownership and accountability, Cross-functional collaboration, Stakeholder coordination, Technical communication, Team-based problem solving , Adaptability in fast-paced environments

Awards & Achievements

112 & 113 傑出僑生獎學金 Scholarship Award

Taipei, Taiwan

- Awarded by Overseas Community Affairs Council (Taiwan)
- Awarded to top achievers among Overseas Chinese undergraduate students nationwide in Taiwan

1st Highest Achiever for Academic Records in Science Major

Bandung, Indonesia

Average Score: 92

- Awarded by Bintang Mulia High School (Indonesia)
- Awarded for achieving the highest total score in Science Major

1st Highest Achiever for National Exam in Science Major

Bandung, Indonesia

Average Score: 96.75

- Awarded by Bintang Mulia High School (Indonesia)
- Awarded for achieving the highest total score in National Exam testing

Languages

- English:** TOEIC 990 – Professional Working Proficiency
- Chinese:** HSK 4 – Limited Working Proficiency
- Indonesian:** Native Proficiency