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   New 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   Taipei, Taiwan
Mobilizing Information Technology Lab, NTUST   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   Bandung, Indonesia
PD Parahiangan Jaya   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

• Awarded by Bintang Mulia High School (Indonesia)   Average Score: 92

• Awarded for achieving the highest total score in Science Major

1st Highest Achiever for National Exam in Science Major   Bandung, Indonesia

• Awarded by Bintang Mulia High School (Indonesia)   Average Score: 96.75

• 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