Meng-Yang Wang

+1-765-543-1474 | marsmang0525@gmail.com | linkedin.com/in/marswangyang | West Lafayette, IN

EDUCATION

Purdue University   Expected May 2026
M.S. in Electrical and Computer Engineering | GPA: 3.75/4.0   West Lafayette, IN
- Concentration: Software Engineering/Artificial Intelligence
- Coursework: Artificial Intelligence, Data Mining, Advanced Software Engineering, Computer Networks
- Research Project: LLM-Driven Code Generator for Scalable Memory-Safety Verification of C/C++ Software
  * Automated C/C++ verification with an LLM-based system, cutting testing code generation time by 70%.
  * Enhanced verification accuracy via RAG and vector embeddings database, boosting code coverage by 25%.

National Central University   Sep. 2017 – Jun. 2022
B.S. in Electrical Engineering   Taiwan
- Teaching Assistant: Introduction to Artificial Intelligence (AI)
- CS Coursework: Algorithms, Data Structures, Computer Networks, Operating Systems (OS), Object-Oriented Analysis and Design, Neural Networks, Introduction to Artificial Intelligence, Introduction to Machine Learning

EXPERIENCE

Amazon   May 2025 – Aug. 2025
Software Development Engineer Intern   Seattle, WA
- Automated an end-to-end processing with AWS Step Functions, Lambda, and DynamoDB, reducing manual steps from 7 to 1 and lowering monthly errors by over 95%, and decreasing resolution time from 2 days to near real-time.
- Refactored 2 legacy local scripts into Lambda-compatible components with advanced strategy patterns, reducing workflow execution cost to under $0.05 per task while saving 100+ engineer-hours per month.
- Developed a schedule management system supporting CRUD of future tasks, enabling instant scheduling of 98% of incoming requests, and streamlining workflow management for 50+ tickets per month.

Microsoft   Jul. 2022 – Aug. 2023
Cloud Solution Architect   Taiwan
- Engineered a distributed email search platform processing 500+ PB of data, leveraging Flask, Azure Data Explorer, and SQL to cut search times from 2 hours to 2 minutes, dramatically improving operational efficiency.
- Designed and implemented an automated pipeline using Python multi-threading and PowerShell to provision and synchronize 20k+ virtual machines, reducing environment setup time for 10k+ VMs from hours to just 3 minutes.
- Automated the web app deployment process using Java, HTTPS, and Azure Logic Apps, resolving package upload restrictions from Azure Spring Apps and reducing deployment time by over 2 hours per week.
- Led a cross-functional team of five to build the award-winning "Sign Language Avatar in Teams" solution with .NET, Azure Machine Learning, earned "The Most Popular Award" at the 2022 Global Microsoft Hackathon.
- Led an end-to-end Azure OpenAI project utilizing Azure OpenAI, Cognitive Services, Azure Functions, Redis, and Cosmos DB to deliver a comprehensive cloud-native solution.

Yun Yu Lian Co. Ltd. *cloud-tech startup specializing in cloud, DevOps, and AI solutions*   Jan. 2021 – Jun. 2022
Software Engineer & Product Manager Intern   Taiwan
- Designed and developed a B2C software platform, integrating a Python Flask backend, MySQL database, and chatbot interface, which enabled 150+ users to interact with the game via communication App.
- Spearheaded the end-to-end product launch, including product blueprint planning, technical implementation, and go-to-market sales strategy, resulting in the sale of 20+ game sets and over $1,000 in profit within 2 months.
- Developed an item-based recommendation artificial intelligence system for a LINE chatbot using Flask and Google BigQuery, handling 100+ concurrent users with a response time under 1 second.

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, C#, C++, SQL, JavaScript, HTML, CSS, Bash, PowerShell
Frameworks: Flask, .NET, React, AutoGen, LangChain, FastAPI, Django, TensorFlow, Pytorch, CUDA, Spark
Databases: PostgreSQL, Microsoft Azure SQL Database, Redis, Azure Cosmos DB, Amazon S3, Amazon DynamoDB
Tools: Azure, Amazon Web Services (AWS), GCP, Docker, Kubernetes, Linux, Terraform, Git, Kafka, GraphQL
Skills: Back-End, System Design, DevOps, Infrastructure as Code, OOP, Containerization, Machine Learning, Agile
Certification: Microsoft Certified Trainer, AZ-104 (Azure Administrator Associate), AZ-204 (Azure Developer Associate)