

EDUCATION

The Ohio State University M.S. Computer Science and Engineering	Aug 2025 — May 2027 Columbus, OH
National Taiwan University of Science and Technology B.S. Computer Science and Information Engineering • Overall GPA: 3.89/4.30, Top 20% of CSIE Department	Sept 2020 — Jun 2024 Taipei, Taiwan

TECHNICAL SKILLS

- **Programming:** Python, C/C++/C#(Unity), Java, JavaScript, TypeScript, SQL
- **Frameworks & Tools:** PyTorch, TensorFlow, ROS, AWS, Docker, Git, Unity, OOP, REST API, TypeORM
- **Languages:** English, Mandarin (Chinese)

RESEARCH EXPERIENCE

AutoMLOps-Cloud: End-to-End Customer Purchase Prediction Pipeline [GitHub]	Remote
An independent project developed while at Artifact Tech	Feb 2025 — Jun 2025
<ul style="list-style-type: none">• Architected a production-grade MLOps pipeline on AWS. Automated the training-to-prediction cycle using AWS Step Functions.• Engineered a containerized (Docker) application for PyTorch & XGBoost models and established a CI/CD workflow with GitHub Actions for automated deployment to Amazon SageMaker.• Developed and served the model via a Flask-based API, making customer behavior forecasts accessible through a SageMaker-compatible endpoint.• Collaborated with colleagues to refine system architecture and ensure alignment with project goals.	
LERA-BFERT: Live Emotional Resonance Application [poster][report][GitHub]	Taipei, Taiwan
University Project led by Prof. Bi-Ru Da, CSIE, NTUST	Feb 2023 — Dec 2023
<ul style="list-style-type: none">• Led a team of four to develop a real-time audience engagement solution by implementing Dynamic Facial Emotion Recognition and micro-expression analysis.• Enabled emotional detection and displaying collective emotional responses to enhance viewer empathy.	
MAE-DFER-CA: Enhanced Dynamic Facial Emotion Recognition with Attention [GitHub]	Taipei, Taiwan
Undergraduate Research led by Prof. Bi-Ru Da, CSIE, NTUST	Feb 2023 — Dec 2023
<ul style="list-style-type: none">• Enhanced the performance of self-supervised methods for Dynamic Facial Emotion Recognition (DFER) by incorporating the CA_Module from MMNET into the MAE-DFER model, enabling refined muscle motion pattern recognition with minimal computational cost.• Increased model accuracy, achieving a WAR of 52.40 with a marginal rise in FLOPS (from 50G to 52G).	

ENGINEERING EXPERIENCE

Buckeye Autodrive, The Ohio State University Perception Team Member	Sept 2025 — Present Columbus, OH
<ul style="list-style-type: none">• Develop perception systems as part of OSU's entry in SAE/GM AutoDrive Challenge™ II, a five-year competition to design autonomous vehicles for urban driving.• Build 2D/3D models for environmental understanding using LiDAR and camera data in ROS pipelines.• Collaborate weekly with 50+ multidisciplinary teammates (sensing, controls, hardware) at OSU's Center for Automotive Research to align progress and integration.	
Artifact Tech (App & Backend API Development) Data Analysis & Backend Engineer	Jan 2024 — Mar 2025 Taichung, Taiwan
<ul style="list-style-type: none">• Contributed to data analysis and backend development for LPG_CLOUD, enhancing gas tracking accuracy.• Built web functions, including financial pages, using JavaScript, Python, and SQL, and integrated LINE Bot API to improve user interaction, adopted by more than five clients.	

CAMPUS ACTIVITIES & AWARDS

Volunteer, Digital Cultural Exchange Learning Project, NTUST, Taipei, Taiwan [post]	Oct 2023 — Jan 2024
<ul style="list-style-type: none">• Mentored Kenyan students in AI software (Playground.ai) to develop ESG solutions.	
Team Member, E. SUN Commercial Bank, Taipei, Taiwan [post]	Oct 2023 — Dec 2023
<ul style="list-style-type: none">• Developed a sentiment analysis model by integrating facial expression detection and speech recognition to predict stock performance through corporate optimism.• Won the Merit Award at the 2023 E.SUN BANK Business Proposal Competition.	