

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 Languages:** Python, C/C++/C#, Java, JavaScript/TypeScript, SQL
- **Frameworks & Tools:** PyTorch, TensorFlow, NumPy, Pandas, Scikit-learn, OpenCV, ROS, YOLO, SLAM
- **Platforms & Technologies:** AWS, Docker, Git, REST API, Unity, Linux, CI/CD, PostgreSQL

ENGINEERING EXPERIENCE

Buckeye Autodrive , The Ohio State University Perception Team Member • Implement perception modules for autonomous driving systems , leveraging YOLO for object detection and SLAM for localization within ROS2 pipelines to enhance scene understanding. • Build 2D/3D environment models by fusing LiDAR and camera data, improving obstacle detection and navigation safety. • Collaborate with 50+ teammates across sensing, controls, and safety at OSU's CAR to align progress and integration.	Sept 2025 — Present Columbus, OH
Artifact Tech (App & Backend API Development) Data Analysis & Backend Engineer • Designed and implemented a time-series forecasting pipeline for LPG demand prediction, improving accuracy by 10% compared to baseline averages and enabling scheduled retraining. • Built customer-facing dashboards with TypeScript , Python , and SQL , and integrated a LINE Bot API adopted by more than five clients, streamlining reporting workflows and enhancing user engagement.	Jan 2024 — Mar 2025 Taichung, Taiwan

RESEARCH EXPERIENCE

AutoMLOps-Cloud: End-to-End Customer Purchase Prediction Pipeline [GitHub] An independent project developed while at Artifact Tech • Designed and deployed a production-grade MLOps pipeline on AWS Step Functions , automating the full ML lifecycle from training to scheduled batch predictions. • Containerized PyTorch and XGBoost models with Docker and implemented CI/CD (GitHub Actions) to enable reproducible deployments on AWS SageMaker . • Exposed forecasts via a Flask REST API , reducing manual retraining effort and deployment cycle time.	Remote Feb 2025 — Jun 2025
LERA-BFERT: Live Emotional Resonance Application [poster][report][GitHub] University Project led by Prof. Bi-Ru Da, CSIE, NTUST • Led a team of four to develop a real-time audience engagement solution by implementing Dynamic Facial Emotion Recognition and micro-expression analysis. • Conducted a pilot study with five participants , demonstrating the system's ability to capture subtle audience reactions and visualize collective emotional trends.	Taipei, Taiwan Feb 2023 — Dec 2023
MAE-DFER-CA: Enhanced Dynamic Facial Emotion Recognition with Attention [GitHub] Undergraduate Research led by Prof. Bi-Ru Da, CSIE, NTUST • Implemented the existing MAE-DFER model in PyTorch and extended it by integrating the CA_Module (MMNET), improving recognition of subtle muscle motions while keeping computational cost low. • Increased model accuracy, achieving a WAR of 52.40 with a marginal rise in FLOPS (from 50G to 52G).	Taipei, Taiwan Feb 2023 — Dec 2023

CAMPUS ACTIVITIES & AWARDS

Volunteer, Digital Cultural Exchange Learning Project, NTUST , Taipei, Taiwan [post] • Mentored Kenyan students for more than twenty hours in AI software (Playground.ai) to develop ESG solutions.	Oct 2023 — Jan 2024
Team Member, E. SUN Commercial Bank , Taipei, Taiwan [post] • 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.	Oct 2023 — Dec 2023