

Hsiu-Chen (Connor) Yu

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EDUCATION

The Ohio State University , Columbus, OH <i>Master of Science in Computer Science and Engineering (CSE)</i>	<i>Aug. 2025 — Present</i>
National Taiwan University of Science and Technology (NTUST) , Taipei, Taiwan <i>Bachelor of Science in Computer Science and Information Engineering (CSIE)</i> • Overall GPA: 3.89/4.30, Top 20% of CSIE Department	<i>Sept. 2020 — Jun. 2024</i>

PROJECT/RESEARCH EXPERIENCE

AutoMLOps-Cloud: End-to-End Customer Purchase Prediction Pipeline [GitHub] <i>An independent project developed while at Artifact Tech</i> • Architected a production-grade MLOps pipeline on AWS, using Step Functions to automate the entire ML lifecycle from training to batch prediction • 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.	Remote <i>Feb. 2025 — June. 2025</i>
LERA-BFERT: Live Emotional Resonance Application [poster][report][GitHub] <i>University Project led by Prof. Bi-Ru Da, CSIE, NTUST</i> • Led a team to develop a real-time audience engagement solution by implementing Dynamic Facial Emotion Recognition and micro-expression analysis, enabling emotional detection and displaying collective emotional responses to enhance viewer empathy.	Taipei, Taiwan <i>Feb. 2023 — Dec. 2023</i>
MAE-DFER-CA: Enhanced Dynamic Facial Emotion Recognition with Attention [GitHub] <i>Undergraduate Research led by Prof. Bi-Ru Da, CSIE, NTUST</i> • 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).	Taipei, Taiwan <i>Feb. 2023 — Dec. 2023</i>

EXPERIENCE

Buckeye Autodrive , The Ohio State University– Columbus, OH <i>Perception Team Member</i> • Developing perception systems as part of OSU's entry in SAE/GM AutoDrive Challenge™ II, a four-year competition to design autonomous vehicles for urban driving. • Focusing on 2D/3D models for environmental understanding using LiDAR and camera data in ROS pipelines.	<i>Sept. 2025 — Present</i>
Artifact Tech (App & Backend API Development), Taichung, Taiwan <i>Data Analysis Engineer</i> • 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, gaining interest from five+ clients.	<i>Jan. 2024 — Mar. 2025</i>

EXTRACURRICULAR ACTIVITIES

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

SKILLS

• Programming: Python, C/C++/C#(Unity), Java, JavaScript, Typescript, SQL • Software: PyTorch, TensorFlow, ROS, AWS, Docker, Git, Unity, OOP, Rest API, TypeORM • Languages: English, Mandarin (Chinese)
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