

# Hsiu-Chien (Connor) Yu

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## EDUCATION

**The Ohio State University**, Columbus, OH

*Aug. 2025 — Present*

*Master of Science in Computer Science and Engineering (CSE)*

**National Taiwan University of Science and Technology (NTUST)**, Taipei, Taiwan

*Sept. 2020 — Jun. 2024*

*Bachelor of Science in Computer Science and Information Engineering (CSIE)*

• Overall GPA: 3.89/4.30, Top 20% of CSIE Department

## PROJECT/RESEARCH EXPERIENCE

**AutoMLOps-Cloud:** End-to-End Customer Purchase Prediction Pipeline [[GitHub](#)]

Remote

*An independent project developed while at Artifact Tech*

*Feb. 2025 — June. 2025*

- **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.

**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*

- 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.

**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*

- **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).

## WORK EXPERIENCE

**Artifact Tech** (App & Backend API Development), Taichung, Taiwan

*Jan. 2024 — Mar. 2025*

*Data Analysis Engineer*

- 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.

## SELECTED COURSE PROJECTS

**3D Reconstruction from Stereoscopic Images**, *Computer Vision and Applications*

*May. 2024 — Jun. 2024*

- Developed a Python and OpenCV program for 3D point reconstruction from stereoscopic images, ensuring accuracy with triangulation, camera parameters, and error checks.
- Generated and verified a color 3D point cloud in XYZ format using MeshLab.

**Turing Compiler Development Using Robust Parsing**, *Compiler Design*

*Apr. 2023 — Jun. 2023*

- Built an LALR(1) parser for the sT language using Lex and Yacc, performing semantic checks. Generated Java assembly code, successfully compiled into Java bytecode.

## EXTRACURRICULAR ACTIVITIES

*Volunteer, Digital Cultural Exchange Learning Project, NTUST, Taipei, Taiwan* [[post](#)]

*Oct. 2023 — Jan. 2024*

- 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*

- 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.

## ADDITIONAL INFORMATION

- AI & Computer Vision: PyTorch, TensorFlow, OpenCV, Pandas, NumPy, MeshLab
- Cloud & DevOps: AWS, Docker, Git, TypeORM
- Programming: Python, C/C++/C#(Unity), Java, JavaScript, Typescript, SQL
- Software & Tools: VSCode, Visual Studio, Vim, Unity