

## EDUCATION

<b>The Ohio State University</b> <b>M.S. Computer Science and Engineering</b>	Aug 2025 — May 2027 Columbus, OH
<b>National Taiwan University of Science and Technology</b> <b>B.S. Computer Science and Information Engineering</b> • 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

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

## ENGINEERING EXPERIENCE

<b>Buckeye Autodrive, The Ohio State University</b> <b>Perception Team Member</b>	Sept 2025 — Present Columbus, OH
<ul style="list-style-type: none"><li>• Develop 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.</li><li>• Build 2D/3D models for environmental understanding using LiDAR and camera data in ROS pipelines.</li><li>• Collaborate weekly with 50+ multidisciplinary teammates (sensing, controls, hardware) at OSU's Center for Automotive Research to align progress and integration.</li></ul>	
<b>Artifact Tech (App &amp; Backend API Development)</b> <b>Data Analysis &amp; Backend Engineer</b>	Jan 2024 — Mar 2025 Taichung, Taiwan
<ul style="list-style-type: none"><li>• Contributed to data analysis and backend development for LPG_CLOUD, enhancing gas tracking accuracy.</li><li>• 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.</li></ul>	

## CAMPUS ACTIVITIES & AWARDS

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