

Pei-Yu (Lucy) Chen

Education

Master in Computer Science (Align) <i>Northeastern University, Seattle, WA</i>	Sep. 2024 - Dec. 2026
Bachelor in Economics <i>National Taiwan University, Taipei, Taiwan (NTU, ranked #1 in Taiwan)</i>	Sep. 2018 - Aug. 2022
<ul style="list-style-type: none">Relevant Courses<ul style="list-style-type: none">Statistical Learning and Deep Learning (A+)Data Science and Social Inquiry (A+)Exchange Program: Department of Economics, University of Mannheim, Germany	Feb. 2022 - Jun. 2022

Projects

Housing Prices Prediction with Street Scenes [Python]	Sep. 2021 - Jan. 2022
<ul style="list-style-type: none">Topic: Incorporated the refined street scene features into a housing price prediction model [Code] and researched on the relationship between housing prices and street scenesImage Request: Requested street images from Google Static Street View API and extracted image featuresModel Construction: Applied a pre-trained VGG16 model (convolutional neural network (CNN) architecture) to extract image features, ensuring the generality by freezing earlier layers and excluding the last layerOptimization: Refined the extracted features (dimension reduction) by parameter search loops and evaluating with Random Forest RegressionUtilized Python packages: Requests, PIL, Tensorflow, Pytorch, Scikit-Learn, Pandas	
Personal Website [HTML, CSS, JavaScript]	Oct. 2024
<ul style="list-style-type: none">Responsive website [Website] including contact form sent for google sheets	

Awarded Project

Y.L. Lin Hung Tai Education Foundation – NTU Scholarships	Jul. 2021 - Sep. 2023
<ul style="list-style-type: none">Scholarship of NTD 450K (≈USD 15K), sponsoring my social initiative and international exchangeImplemented the Indonesian-Chinese Platform [Website] and engaged thousands of people via online channels	

Professional Experience

Application Consultant <i>IBM Consulting Taiwan, Customer Transformation (Banking Industry Focus)</i>	Aug. 2022 - Sep. 2023
<ul style="list-style-type: none">System Analysis<ul style="list-style-type: none">Organized business requirements and transformed them into functional processes, concurrently handling 20 functions across different SDLC (Software Development Life Cycle) phasesCollaborated with 6 Developers to design the system given client-side APIs and optimized database operationsCooperated with 4 UI/UX Designers to craft functional and user-friendly mobile banking interfacesSolution Design<ul style="list-style-type: none">Structured QA solution materials by synthesizing internal documents and industry best practicesProposed a QA solution design, enhancing project implementation efficiency and used for client engagement	
QA Intern <i>Shopee Taiwan, Operations - Tech Team</i>	Jul. 2021 - Jan. 2022
<ul style="list-style-type: none">Planned, implemented and documented manual testing procedures, improving the E-commerce supply chainSupported to the supply chain platform development through Product Requirements Document enhancementsAnalyzed data with nested SQL queries, contributing to informed decision-making	

Leadership & Service

President <i>NTU Symphony Orchestra (88 members)</i>	Aug. 2019 - Feb. 2020
<ul style="list-style-type: none">Initiated a 15-day Europe Concert Tour, sponsored by alumni and companies (canceled due to Covid-19)Hosted a concert at the National Concert Hall [Video] with 1,000 attendees, generating NTD 300K (≈USD 10K)Organized on-campus activities: orientation, Christmas activities, and a charity performance at NTU Hospital	
Volunteer <i>NTU Shanfu (organizing educational camps during summer/winter vacation in mountain areas)</i>	Feb. 2019 - Aug. 2019
<ul style="list-style-type: none">Created materials and organized activities for a tribal community in Taitung CountyLectured science classes during a two-week summer camp for 20 aboriginal children	