

Jason Chen

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Education

New York University (NYU)

Courant Institute of Mathematical Sciences - Master of Science in Computer Science (MSCS)
Sept 2025 - June 2027

University of Taipei, Taipei, Taiwan

Bachelor of Science in Computer Science
Sept 2021 - Feb 2025

Skills

- **Languages:** Python, Java, JavaScript, SQL
- **Web & Backend:** Flask, REST APIs, HTML, CSS, React, Streamlit
- **Cloud & DevOps:** AWS EC2, AWS S3, Oracle Cloud, Docker, Kubernetes, OpenShift, Tekton
- **AI & Data:** MediaPipe, OpenPose, OpenCV, scikit-learn, TensorFlow/Keras, Pandas, NumPy
- **Tools:** Git, GitHub, Linux, PostgreSQL, Swagger/OpenAPI, Selenium, pytest

Projects

Undergraduate Research Project - National Science and Technology Council (NSTC) - *Selected NSTC Undergraduate Research Project | Python, MediaPipe, OpenPose, PWA, Computer Vision | July 2024 - March 2025*

- Built a computer vision system that turned taekwondo videos into measurable performance metrics for evaluating athlete stability, consistency, and explosiveness.

Cloud-Based Intelligent Taekwondo Motion Classification System - *Cloud Computing Project | Python, Streamlit, AWS EC2, S3, Oracle Cloud, MediaPipe, scikit-learn | 2026*

- Built and deployed an end-to-end cloud AI system that classifies taekwondo kicks from uploaded videos and returns real-time prediction results.

Promotions Microservice with CI/CD Deployment Pipeline - *DevOps Project | Python, Flask, PostgreSQL, Docker, Kubernetes, OpenShift, Tekton | 2026*

- Built a production-style backend microservice with automated testing, API documentation, and CI/CD deployment to simulate a real DevOps workflow.

Human Activity Recognition Using CNN and Sensor Data - *AI Project | Python, CNN, TensorFlow/Keras, NumPy, Pandas, Matplotlib | 2024*

- Built a CNN-based activity recognition model that improved motion classification accuracy from 72% to 97% through better sensor-data processing.

IMDb & YouTube Movie Trailer Analytics: A Big Data Approach - *RBDA Big Data Analytics Project | Google Dataproc, HDFS, Hive, Trino, MapReduce, Python, SQL | 2026*

- Built a big data pipeline that analyzed trailer sentiment, ratings, and box office data to generate business insights about movie performance.

Publications

Smart Computing Forum (SCF) 2024 - *Aug 2024*

- Co-authored a paper with several professors on the topic "Analysis of School Administration Research on the Promotion and Implementation of Computational Thinking in Curriculum and Teaching" at the Sina Smart Computing Institute (SSCI).

Work Experience

Teaching Assistant in Student Buddy Program - *University of Taipei, Taipei, Taiwan | Taipei, Taiwan | Nov 2024 - Dec 2024*

Frontend Design Intern - *Jessie Tech Co., Ltd. | Taipei, Taiwan | Aug 2023 - Sept 2023*

- Collaborated with the UX/UI team on various tasks such as data organization and 3D model testing.
- Gained proficiency in React and JavaScript through hands-on experience.

Representative of Graduate Student Association - *University of Taipei, Taipei, Taiwan | Taipei, Taiwan* *Aug 2024 - Jan 2025*

- Assisted in coordinating and organizing graduation-related affairs.

Awards & Scholarships

Java Programming Competition Honorable Mention - *University of Taipei (Fall 2023)*

Chongqing Li Scholarship - *Taipei City (Fall 2022 & Spring 2023)*

- Merit-based scholarship awarded to students achieving an academic average above 85.

Academic Performance - **Ranked 3rd** - *University of Taipei, Department of Computer Science (Spring 2022 & Spring 2023)*

- Received a departmental award for ranking 3rd academically in the Department of Computer Science at the University of Taipei.