# YU-TING (NICK) LIN
+886-922-217-691 | yutingl9@illinois.edu | GitHub: https://github.com/NICKLIN13

## EDUCATION

**University of Illinois Urbana-Champaign (UIUC)** — Illinois, USA
*Master of Computer Science* — 2024/05-Expected 2025/12

**Oita University** — Oita, Japan
*B.Eng. in Architecture and Mechatronics* — 2016/04-2020/03
Completed JABEE accredited engineering program with dual 3.5-year Academic Excellence Scholarships

**CS-Related GPA: 4.0/4.0 (Achieved a top score of 99% in the OOP class)**
Courses: Object-oriented Programming, Algorithms, Data Structure, Software Engineering, Computer Graphics, etc.

## PROJECT

**Weather Mobile App (Android Studio - Java)** — 2024/09-2024/12
- Developed a weather app using Firebase for authentication and storage, enabling users to log in, customize UI themes, and select cities to view detailed weather data
- Integrated Google Maps API to provide an interactive map for selected cities
- Collaborated with team members to integrate a Gemini LLM model, offering automated responses
- Manually wrote instrumented tests to ensure proper UI functionality and used LLMs to generate unit tests

**Interactive Computer Graphics (Python, JavaScript, WebGL)** — 2024/09-2024/11
- **Rasterizer:** Designed and implemented a rasterization pipeline with DDA algorithm to render png images by reading the txt files
- **3D terrain generator:** Implemented a CPU-GPU pipeline and developed a 3D landscape generator with Blinn-Phong shading, interactive "drive" and "fly" modes, and user-controlled erosion effects
- **3D model renderer**: Implemented texture mapping to project user-provided images onto any 3D models

**Narrative Data Visualization (JavaScript, D3.js)** — 2024/05-2024/08
- Generated dynamic charts based on users input by processing statistical data using D3.js
- Developed and integrated user interfaces into a cohesive narrative webpage

**To-Do List Web App (React.js + Express.js)** — 2024/01-2024/04
- Developed a responsive To-Do List web app using React.js and Express.js to build RESTful APIs
- Implemented RWD, automated builds, and deployed

## PROFESSIONAL EXPERIENCE

**International Integrated Systems, Inc. (IISI)** — Taipei, Taiwan
*Software Engineer (Full-Stack)* — 2024/06-2024/08
- Developed and maintained services in Linux environment, using Podman for management and deployment
- Developed a monitoring system to enable real-time data refresh and re-rendering for 180+ servers operated by the Central Weather Administration
- Developed the user login service and interface for the Civil Aviation Administration's internal system
- Developed the responsive web design (RWD) for the Civil Aeronautics Administration's new official website

## SKILLS AND LANGUAGES

**Programming:** HTML, CSS, JavaScript, React(Basic), Vue(Basic), C++, Python, Git, Java(Basic), Node.js
**Tools:** MacOS, MySQL, MongoDB, Linux, Podman, Android Studio
**Languages:** Mandarin (Native), English (Intermediate / TOEFL 102), Japanese (Fluent / JLPT N1)