

# YU-TING (NICK) LIN

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## EDUCATION

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**University of Illinois Urbana-Champaign (UIUC)**

*Master of Computer Science*

Illinois, USA

2024/05-Expected 2025/12

**Oita University**

*B.Eng. in Architecture and Mechatronics*

Completed JABEE accredited engineering program with dual 3.5-year Academic Excellence Scholarships

Oita, Japan

2016/04-2020/03

**CS-Related GPA: 3.91/4.0 (Achieved a top score of 99% in the OOP class)**

Courses: Object-oriented Programming, Algorithms, Data Structure, Software Engineering, Computer Graphics, etc.

## PROJECT

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**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

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**International Integrated Systems, Inc. (IISI)**

*Software Engineer (Full-Stack)*

Taipei, Taiwan

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

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**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)