YU-TING (NICK) LIN

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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-Present
- 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 user interactions, UI functionality, and device integration

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)