YuTing (Nick) Lin

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Education

University of Illinois Urbana-Champaign (UIUC) Illinois, USA

Master of Computer Science (GPA: 3.94/4.0) 2024/05-2025/12

- Coursework: Object-Oriented Programming (C++), Algorithms (C++), Data Structures (C), Database Systems (SQL, NoSQL), Distributed Systems (C++), Cloud Computing (AWS, Docker, Kubernetes), Web Programming (React, MongoDB), Software Engineering (Java), Computer Graphics (Python, JavaScript, WebGL), Data Curation (Python, Pandas), Data Visualization (Tableau)

Oita University Oita, Japan

B.Eng. in Architecture and Mechatronics 2016/04-2020/03

- Dual Academic Excellence Scholarships

Skills & Languages

- **Programming Languages:** C++, Java, JavaScript, Python
- **DevOps:** AWS, Docker, Git, Kubernetes, Linux
- **Databases:** MySQL, MongoDB, Neo4j, DynamoDB, HBase
- **Web Development:** HTML/CSS, React.js, Vue.js, TypeScript, Bootstrap, Node.js, Express.js, Flask
- **Languages:** Mandarin (Native), English (Intermediate / TOEFL 102 / TOEIC 925), Japanese (Fluent / JLPT N1)

Work Experience

International Integrated Systems, Inc. (IISI) Taipei, Taiwan

Software Engineer (Full-Stack) 2024/06-2024/08

- Developed a full-stack server monitoring dashboard using Vue.js, Python, and Flask, enabling real-time data refresh and performance tracking for 180+ servers
- Achieved 45% time savings by implementing Python and Pandas for data cleaning and migration to adapt legacy data to the new database schema
- Developed three responsive web interfaces using JavaScript and Bootstrap, including two official websites and a login portal, and deployed with Podman containers for consistent cross-environment maintenance

Jing Shun International Co., Ltd. Taipei, Taiwan

Software Engineer Intern (Backend) 2023/10-2023/12

- Developed REST APIs to automate inventory management using Python, reducing manual processing time by 64%

Selective Projects

Cloud Computing Applications (AWS) 2025/01-2025/05

- **Dynamic AWS Infrastructure (EC2, Security Groups, Auto Scaling):** Designed and deployed an auto-scaling AWS infrastructure by configuring EC2 Launch Templates, Security Groups, and Elastic Load Balancer, automatically adding/removing instances based on traffic load, improving cost efficiency
- **Real-Time Stock Data Streaming Platform (Flink, Kinesis, PyFlink):** Built a stock pipeline using Kinesis for high-throughput streaming and Flink/PyFlink for processing and computing indicators to detect anomalies in real time

Academic Research Explorer – Team Project (MySQL, MongoDB, Neo4j, REST APIs) 2025/01-2025/05

- Integrated MySQL, MongoDB, Neo4j for multi-source data analytics
- Optimized query performance by 40% using aggregation pipelines, graph indexes, and composite primary keys

3D Terrain Simulator (Python, JavaScript, WebGL) 2024/09-2024/11

- Developed a CPU-GPU rendering pipeline to generate an interactive 3D terrain with Blinn-Phong shading, real-time camera control, and dynamic erosion simulation, enabling smooth visualization and efficient parallel computation