

KUAN-CHENG LUNG

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EDUCATION

University of Illinois Urbana-Champaign (UIUC), IL, USA [expected] *Aug.2025 - Dec.2026*
Master of Science in Information Management (MSIM)

National Taiwan University (NTU), Taipei, Taiwan *Sept.2018 - June.2022*
Bachelor of Laws

PROFESSIONAL EXPERIENCES

Software Engineer | SecuX Technology *May.2024 - June.2025*

- Spearheaded the expansion of blockchain network support in the company's cold-wallet application, **doubling** supported networks within six months, resulting in **34%** overall transaction volume growth.
- Directed backend development of a **new swap service generating tens of thousands in monthly revenue**, architecting a universal provider interface and overseeing the full transaction pipeline and asset handling.
- Optimized backend performance by implementing concurrency mechanisms and caching strategies, reducing request overhead by **50%** and achieving nearly **20x** throughput improvement.
- Developed a decentralized identification (DID) system, contributing to system architecture, deployment, and testing, which secured two government-funded projects valued at **tens of thousands** annually.

Software Engineer | Phoenix Silicon International Corporation *Aug.2022 - Jan.2024*

- Led the complete overhaul of the electronic wafer map (eMap) system, replacing **30+** legacy programs, achieving a **90x** improvement in processing speed, saving the company **tens of thousands** annually.
- Engineered a scalable relational database that reduced data storage by **50%**, minimized overhead, enhanced consistency, and ensured long-term operational scalability.
- Designed and implemented a high-performance E-Map processing pipeline that optimizes resource utilization, reducing scheduling trigger time by **92%** and significantly enhancing operational efficiency.

PROJECTS

Smart Flashcards for Legal Exam Preparation

- Engineered an AI-powered flashcard app tailored for bar exam prep, **cutting notetaking time by 30%** and **automating flashcard generation** to accelerate study workflows.
- Architected a legal-domain-specific processing pipeline with automated referencing, **reducing search time by 30%** and overcoming limitations of general-purpose AI models.
- Devised and deployed a custom spaced-repetition algorithm with NoSQL-backed real-time sync, **boosting recall accuracy by up to 80%** and delivering seamless cross-device study experiences.

RESEARCH ACCOMPLISHMENTS

Application of Artificial Intelligence Technology in the Optimization of Copper Metal Drawing Process

- **Best Conference Paper Award** - 2024 International Conference on Technology, Leisure, and Humanities Management Application Techniques, Taiwan

Application of Artificial Intelligence in the Development of the Identification System of the Limb State of Elderly

- **Gold Medal & Best Product Design** - 2022 KIDE Kaohsiung International Invention and Design Exhibition

SKILLS AND TECHNICAL KNOWLEDGE

- **Languages:** Python, Java, C#, JavaScript/TypeScript, Solidity, HTML/CSS
- **Frameworks & Tools:** ASP.NET Core, Spring, Next.js, Node.js, Docker, Git
- **Databases:** PostgreSQL, SQL Server, Oracle Database