李沛宸 (Pei-Chen Lee) -

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Portfolio | *LinkedIn* | *GitHub*

🎯 Professional Summary

An accomplished **Software Engineer** with **5 years of experience** specializing in **Cloud Infrastructure and Cybersecurity**. Possesses numerous industry certifications (ISC², AWS, GCP) and has demonstrated **exceptional academic performance (Cumulative GPA: 3.96/4.3)** in graduate-level coursework. Eager to leverage extensive hands-on expertise in **DevSecOps, SAST, Zero Trust architecture**, and emerging fields like **Quantum Computing and AI Security** to pursue advanced studies in **AI-driven security systems**.

🎓 **Exchange Program Focus**: Cybersecurity Specialist | Quantum Cryptography Researcher | Advanced Cloud Security Architect

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🎓 Education

National Chengchi University (NCCU), Taipei, Taiwan

Graduate Coursework in Digital Content and Technologies | *Sept 2021 – June 2023*
- **Cumulative GPA: 3.96 / 4.3** (Top 5% of class)
- **Relevant Coursework**: Advanced Programming, Data Structures, Software Engineering, Digital Content Management
- **Research Focus**: Cybersecurity, AI-driven security systems, Quantum computing applications

National Chengchi University (NCCU), Taipei, Taiwan

Bachelor of Science in Management Information Systems | *Sept 2015 – June 2020*
- **Relevant Coursework**: Database Systems, Information Security, System Analysis and Design
- **Capstone Project**: AI-based intrusion detection system for enterprise networks

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🏆 Honors & Awards

Award	Organization	Year	Description
Selected Appointee, HIS Engineer	TaiwanICDF	2024	Somaliland Mission - International Development
Meta Hackathon Reward	Meta (Facebook)	2023	Competitive programming and innovation
Graduate Student Scholarship	NCCU	2023	Academic excellence recognition
Featured Artist	NCCU Art Center	2023	NFT Creation Exhibition - Bridged crypto technology and artistic expression
Best Popularity Award	NCCU	2020	Graduation Project Competition

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💼 Professional Experience

🔒 Cybersecurity Developer | MITAKE Information Co., Ltd. | *Taipei, Taiwan*

Sept 2024 – Present

Key Achievements:
- **Led end-to-end integration** of hardware security key (HPkey) with client-side agent and cloud management console
- **Developed and maintained firmware** for ESP32-based hardware components using C/C++
- **Established secure software development lifecycle (SSDLC)** by integrating automated Git security scanning into CI/CD pipeline
- **Designed and implemented** an in-house penetration testing laboratory to identify and mitigate system vulnerabilities

Technologies: C/C++, ESP32, Git Security Scanning, CI/CD, Penetration Testing

🚀 Software Development Consultant & Freelance Engineer | *Taipei, Taiwan*

2023 – Present

Project 1: Virsody.io (3D Online Exhibition Platform)
- **Engineered unified CI/CD pipelines** for Nuxt.js and Nest.js using AWS CodePipeline
- **Hardened security** by configuring AWS WAF, blocking over **100 malicious requests weekly**
- **Established Zero Trust security model** for testing environments

Project 2: Smart City Insights API
- **Led backend architecture** for layered API (processing time <180ms)
- **Refactored CI/CD** to robust on-tag release workflow
- **Integrated Snyk** for security scanning and built **120-case E2E testing suite**

Technologies: AWS, Nuxt.js, Nest.js, AWS WAF, Zero Trust, Snyk, E2E Testing

🛡️ Cybersecurity Consultant / Development Leader | Twister5 | *Taipei, Taiwan*

Sept 2023 – May 2024

Key Achievements:
- **Led critical infrastructure protection projects** for premier clients including:
- **Taiwan Armed Forces Medical Bureau**
- **Cathay Financial Holdings**
- **Taiwan Stock Exchange (TWSE)**
- **Industrial Technology Research Institute (ITRI)**
- **Engineered automated DNS and WAF solutions**, achieving **90% improvement in deployment efficiency** for enterprise clients like **Yulon Motor**
- **Architected Business Decision Engine (BDE)** by integrating Next.js/R3F 3D frontend with locally-run Ollama LLM
- **Orchestrated proof-of-concept (PoC)** for **quantum computing integration with IBM's quantum systems**

Technologies: DNS Security, WAF, Next.js, R3F, Ollama LLM, IBM Quantum, Enterprise Security

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🔬 Research Experience

Research Assistant | NCCU Innovation Incubation Center | *Taipei, Taiwan*

Sept 2021 - June 2023

Key Achievements:
- **Developed educational games** for children using Unity engine
- **Managed complete publishing pipeline** for applications on Apple App Store and Google Play
- **Conducted research** on AI-driven security systems and quantum computing applications

Technologies: Unity, C#, Mobile App Development, App Store Publishing

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🛠️ Technical Skills

Programming Languages

- **Golang** (Advanced) - Backend development, microservices
- **Python** (Advanced) - Data analysis, AI/ML, automation
- **JavaScript/TypeScript** (Expert) - Full-stack development
- **SQL** (Advanced) - Database design and optimization
- **Bash** (Intermediate) - System administration, automation

Cloud & DevOps

- **AWS** (Advanced) - EC2, S3, Lambda, CodePipeline, WAF
- **GCP** (Advanced) - Compute Engine, Cloud Storage, Cloud Functions
- **Cloudflare** (Expert) - Zero Trust, DDoS mitigation, CDN
- **Docker** (Advanced) - Containerization and orchestration
- **Kubernetes** (Intermediate) - Container orchestration
- **Terraform** (Intermediate) - Infrastructure as Code
- **GitHub Actions** (Advanced) - CI/CD automation

Security

- **Zero Trust Architecture** (Expert) - Implementation and design
- **WAF** (Advanced) - Web Application Firewall configuration
- **DDoS Mitigation** (Advanced) - Attack prevention and response
- **IAM** (Advanced) - Identity and Access Management
- **Penetration Testing** (Intermediate) - Vulnerability assessment
- **Snyk** (Advanced) - Security scanning and vulnerability management
- **SIEM** (Intermediate) - Splunk, Axiom security monitoring

AI / Quantum Computing

- **Ollama LLM** (Advanced) - Local language model deployment
- **IBM Quantum** (Intermediate) - Quantum computing platforms

• **Python** (Advanced) - Scikit-learn, Pandas for data science

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🏅 Certifications & Training

Certification	Issuing Organization	Year	Status
Certified in Cybersecurity (CC)	ISC²	2024	✅ Active
Machine Learning	Stanford University	2023	✅ Completed
AWS Certified Cloud Practitioner	Amazon Web Services	2023	✅ Active
Oracle Cloud Infrastructure Foundations Associate	Oracle	2023	✅ Active
Network Automation Engineering	Cisco	2023	✅ Completed
Cloudflare Certified Engineer (ACE, ASE, MSP)	Cloudflare	2023	✅ Active
Prisma Cloud Certified Engineer	Palo Alto Networks	2023	✅ Active
IBM Quantum Computing & Qiskit	IBM	2023	✅ Completed

🎵 Leadership & Extracurricular Activities

🎸 Lead Guitarist | UN AVEC DEUX | *2015-09 ~ 2024-01*

Achievements:
- **Award-winning metal band** - Received "Iron Rose Award - Finalist" from Taoyuan City Government music competition (2023)
- **Completed multi-city performance tour in Japan** - Successfully co-organized and completed Osaka-based performance tour across Japan, demonstrating strong teamwork, logistical planning, and cross-cultural collaboration (2023)

Skills Demonstrated:
- **Team Leadership** - Led band coordination and performance planning
- **Cross-cultural Communication** - Managed international tour logistics
- **Project Management** - Organized complex multi-city events
- **Creative Problem Solving** - Adapted to different venues and technical requirements

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📊 Key Metrics & Achievements Summary

Category	Achievement	Impact
Academic Performance	3.96/4.3 GPA	Top 5% of graduate class
Professional Experience	5 years	Comprehensive cybersecurity expertise
Security Impact	100+ malicious requests blocked weekly	Proactive threat prevention
Deployment Efficiency	90% improvement	Streamlined enterprise operations
Deployment Frequency	15x increase	Enhanced development velocity
Vulnerability Management	30+ CVEs patched	Proactive security maintenance
Testing Coverage	120-case E2E suite	Comprehensive quality assurance

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🌍 Exchange Program Motivation

My motivation for participating in this exchange program stems from my desire to:

1. **Expand International Perspective**: Gain exposure to different approaches in cybersecurity education and research
2. **Enhance Technical Expertise**: Learn cutting-edge technologies and methodologies from world-renowned institutions
3. **Build Global Network**: Establish connections with international peers and faculty for future collaboration

4. **Cultural Exchange**: Experience different academic and professional cultures to broaden my worldview
5. **Contribute to Taiwan**: Bring back international best practices to strengthen Taiwan's cybersecurity ecosystem

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This CV demonstrates a unique combination of strong academic performance, extensive professional experience, and cutting-edge technical expertise in cybersecurity and cloud infrastructure. The candidate is well-positioned for international exchange programs and advanced studies in AI Security, Quantum Cryptography, or Cloud Security Architecture.