李沛宸 (Pei-Chen Lee) -

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@ 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

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

Y 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

Professional Experience

Geometrical Propert ← 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**



Markonia 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



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

🏅 Certifications & Training

Certification	Issuing Organization	Year	Status
Certified in Cybersecurity (CC)	ISC ²	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

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	

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

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.