

Pei-Chen Lee (李沛宸)

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[Portfolio](#) | [LinkedIn](#) | [GitHub](#)

¶ Professional Summary

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

¶ Target Programs: AI Security 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

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

¶ 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
Taipower Employee's Children Scholarship	Taiwan Power Company	2018	Merit-based scholarship

¶ 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

Project 3: Payment Card AWS Pipeline & frontend dev

- Conducted PCI-DSS regulated donation platform
- Refactored AWS CI/CD to eliminate invalid aws code build pipelines
- Implement AWS bot detection for preventing DDoS/Bandwidth attack**
- Found invalid remaining root domain ssl certification and use CNAME flattening to solve it

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

☁ Frontend Web / Cloud Developer | Bityacht | Taipei, Taiwan

Oct 2023 – May 2024

Key Achievements:

- Led migration to GCP and implemented GitHub Actions CI/CD pipeline, increasing deployment frequency by 15x
- Strengthened security by implementing Cloudflare Zero Trust and proactively patched over 30 NPM supply-chain vulnerabilities (CVEs)

Technologies: GCP, GitHub Actions, Cloudflare Zero Trust, NPM Security, CI/CD

☒ MIS Programmer | Taiwan Farm Industry Corp. | Taipei, Taiwan

July 2020 – Sept 2021

Key Achievements:

- Maintained and managed company's entire IT infrastructure including on-premise servers, network equipment, and Oracle databases
- Administered Enterprise Resource Planning (ERP) system to optimize business processes

Technologies: Oracle Database, ERP Systems, IT Infrastructure Management

☒ Campus / Research & other Experiences

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

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

Research Assistant | NCCU Innovation Incubation Center | Taipei, Taiwan

Oct 2019 - June 2020

- Built "Help You Out," a parent-teacher communication tool.

Part-time Student Assistant | National Chengchi University | Taipei, Taiwan

2022 - 2023

- Provided administrative and operational support across various university departments, including the Counseling Center and Chinese Language Education Center.

HIS Engineer (Remote Consultant) | TaiwanICDF - Somaliland Mission | Taipei & Hargeisa (Remote)

Dates of Co-work, 2024

Key Achievements:

- Provided remote technical leadership for the integration of Microservices, PostgreSQL, IoT, and AI into Somaliland's Health Information Systems (HIS).**
- Acted as a technical mentor, introducing and guiding local engineers on DevSecOps cycles, SAST, and secure Git workflows (branching, IAM, Actions).**
- Identified and resolved a critical, life-threatening bug related to a PostgreSQL UUID hash collision, ensuring data integrity for patient records.**
- Enhanced system security by conducting vulnerability scans (Snyk, Semgrep, GitHub Dependabot) and leading remediation efforts.**
- Facilitated cross-cultural project coordination between Taiwanese and Somaliland teams, managing development goals via GitHub Projects.**
- Technologies: PostgreSQL, Secure Development Lifecycle (SAST, DevSecOps), Snyk, GitHub Actions, International Collaboration

☒ 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

Backend Development

- **Node.js** (Expert) - Express, NestJS frameworks
- **Gin** (Advanced) - Go web framework
- **RESTful APIs** (Expert) - Design and implementation

Frontend Development

- **React** (Expert) - Next.js framework
- **Vue.js** (Advanced) - Nuxt.js framework
- **TailwindCSS** (Advanced) - Utility-first CSS framework

Databases

- **PostgreSQL** (Advanced) - Relational database management
- **Supabase** (Advanced) - Backend-as-a-Service

- Oracle (Intermediate) - Enterprise database systems
- MongoDB (Intermediate) - NoSQL database

AI / Quantum Computing

- Ollama LLM (Advanced) - Local language model deployment
- IBM Quantum (Intermediate) - Quantum computing platforms
- Python (Advanced) - Scikit-learn, Pandas for data science

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

Personal Interests & 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

Category Testing Coverage

Achievement Suite

Impact Comprehensive quality assurance
