

# 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)	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

🎸 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	Achievement	Impact
Testing Coverage	120+ case E2E suite	Comprehensive quality assurance

