

# Song Lin Chen

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## Experience

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### Security-Focused DevOps Engineer

Aug 2025 – Present

*Pacston Technologies, Inc. — IT Services & Consulting*

- Architected secure **CI/CD pipelines** using **Bitbucket Pipelines**, **Docker**, and **AWS ECR**, enforcing **immutable image strategy** and reducing manual deployment effort by 80%.
- Designed **AWS cloud infrastructure (IAM, VPC, ALB, ECS Fargate, App Runner)** with **least-privilege access control** and private subnet segmentation to enhance security posture.
- Implemented **Infrastructure as Code** using **Terraform** and **Ansible**, integrating automated provisioning into CI/CD workflows and reducing manual infrastructure setup by 75%.
- Built **Python-based automation tooling** for **release governance**, **semantic version enforcement**, and PR-driven **CHANGELOG** generation, reducing release preparation time by 70%.
- Developed **serverless monitoring system** using **AWS Lambda**, **DynamoDB**, **CloudWatch**, and **SES** for real-time alerting, reducing incident detection time by 50%.

## Security Infrastructure & AI Projects

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### Vault Secret Management System (Terraform)

Feb 2026

- Built secure infrastructure provisioning workflow using Terraform with encrypted Vault secrets, eliminating **.env** file sharing across 30-person team and 204 services.
- Implemented AWS SSM no-key-based authentication, removing 30+ SSH key pairs from server access and reducing unauthorized access surface by 100%.
- Reduced configuration drift risk by enforcing infrastructure automation across 204 services, replacing ad-hoc manual provisioning with auditable, version-controlled workflows.

### Serverless Security Monitoring Platform (AWS)

Dec 2025

- Built serverless real-time monitoring system (AWS Lambda + DynamoDB) covering 200 services, enabling incident detection from **zero visibility** to fully automated alerting.
- Implemented automated anomaly detection with AWS SES and SMS notifications, processing **~60 events/month** and triggering targeted alerts to reduce incident response time by 50%.
- Developed React dashboard to visualize operational metrics across 200 services, replacing manual log inspection with real-time system health visibility.

### Terraform-Based Infrastructure Platform (AWS)

Oct 2025

- Designed modular Terraform architecture provisioning 30 production workloads (20 App Runner, 6 Fargate, 4 Lambda) across VPC, IAM, ECS, and networking resources, reducing manual provisioning effort by 75%.
- Implemented least-privilege IAM policies and secure private subnet architecture, eliminating manual access configuration across all 30 services.
- Integrated Terraform execution into CI/CD workflow, achieving 100% reproducible infrastructure provisioning and eliminating human error risk.

### AISeMap – AI-Powered Security Analysis Platform

Sep 2025

- Architected an AI-driven **security automation platform** integrating **RAG**(Ollama), **static analysis** (Semgrep, Bandit), and **container scanning**.
- Built backend services in **Go** with **Postgres** and **Milvus** for vector retrieval and structured threat analysis.
- Implemented automated vulnerability detection and **attack path visualization** using React.

## Education

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### National Central University

2023 – 2025

*M.S. in Network Learning Technology*

- Participated in **4 national-level competitions**, including AWS Hackathon and Google Solution Challenge.
- Delivered production-style cloud and AI solutions in competitive engineering environments.

### National University of Kaohsiung

2018 – 2022

*B.S. in Computer Science*

- Awarded **5 technical competition prizes** across software and IoT engineering projects.
- Recognized for excellence in system design and full-stack implementation.