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Experience

Security-Focused DevOps Engineer

Aug 2025 – Present

Pacston Technologies, Inc. — IT Services & Consulting

- Architected secure **CI/CD pipelines** (**Bitbucket Pipelines**, **Docker**, **AWS ECR**) with immutable image strategy and **IaC** via **Terraform** and **Ansible**, reducing manual deployment and infrastructure setup by 75–80%.
- Provisioned **AWS EKS** clusters with **zero-downtime rolling upgrades** via **Blue/Green**, **HPA**, and **PodDisruptionBudget**; established **ArgoCD GitOps** Hub-and-Spoke platform enabling **one-click rollback** across dev / staging / prod.
- Built **Python-based release governance tooling** (semantic versioning, PR-driven CHANGELOG) and **Engineering Platform** standardized Helm templates and developer self-service workflows across 30+ services.
- Developed **serverless monitoring system** (Lambda + DynamoDB + CloudWatch + SES) for real-time alerting across 200 services, reducing incident detection time by 50%.

Security Infrastructure & Platform Projects

Email Observability Dashboard — SES Tracking Platform (AWS)

May 2026

- Designed and deployed a **serverless email analytics pipeline** integrating **SES**, **Kinesis**, **S3**, **Athena**, and **Glue** into an event data lake handling hundreds of thousands of email events per query; serves as **PM monitoring dashboard** and exposes **REST APIs consumed by internal projects** (e.g. E-Sign V2).
- Developed **FastAPI** REST API on **AWS ECS Fargate** with full CI/CD via Bitbucket Pipelines (deploy < 20 min); adopted **OIDC keyless auth** to eliminate long-lived AWS credentials.
- Engineered deduplication logic (`mail.messageId` as unique key) achieving open-rate accuracy within < 1% deviation from AWS SES VDM; dashboard supports multi-dimensional filtering with real-time dynamic SQL preview.

E-Sign V2 — Electronic Contract Platform Infrastructure (AWS EKS)

Apr 2026

- Owned **EKS cluster infrastructure** for the e-sign platform, designing **zero-downtime deployment strategy** via **Blue/Green** rollout, **PodDisruptionBudget**, and **HPA** across dev / staging / prod; configured **433+ line Bitbucket Pipelines** CI/CD for multi-environment releases.
- Integrated **SES Tracking Platform API** into E-Sign V2 to surface real-time email delivery metrics (sent, delivered, opened, bounced) within the contract workflow, with event data stored in **AWS S3** and queryable via **Athena**.
- Managed **ExternalSecrets** and **IRSA** configurations for secure credential injection into EKS workloads, eliminating hard-coded secrets across all environments.

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.

Education

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.