

# Jianda Chien

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## Skills

**Automation** CloudFormation, AWS CDK, Gitlab CI

**Container** Docker, Podman, Kubernetes, Gitlab Container Registry

**Languages** Python, Node.js, Typescript, Bash

**Policies** NIST, HIPAA, FDA cybersecurity guideline

**Tools** CloudWatch, CloudTrail, Snyk, SonarQube, Sentry

**Others** Route53, VPC, Lambda, DynamoDB, S3

## Experience

### PranaQ

Nov 2022 – Present

Software Engineer

#### Operations

- Architected and implemented CloudWatch monitoring dashboards, reducing incident response time by 75%
- Designed and deployed multi-account AWS infrastructure using CloudFormation, managing dev, staging and production environments
- Established comprehensive CI/CD pipelines handling routine deployments
- Implemented security controls and compliance measures to achieve FDA cybersecurity guideline.

#### Development

- Architected and developed full-stack web application using TypeScript, Node.js, and React.
- Designed and implemented serverless architecture using AWS Lambda and API Gateway, and other AWS services such as DynamoDB, S3, SNS, SQS, etc.
- Optimized API latency, including reducing Lambda cold start time, DynamoDb Secondary Index configuration, and regional optimization.
- Implemented comprehensive error tracking and monitoring, achieving 95% application reliability

#### Others

- Designed and executed zero-downtime DynamoDB migration strategy, successfully migrating 100+ GB of data while maintaining data integrity
- Implemented automated disaster recovery system with 2-hour RPO and 30-minute RTO objectives
- Architected multi-region DNS failover setup using Route53 for high availability
- Designed secure network architecture with isolated VPC subnets, implementing security groups and NACLs for enhanced protection

### Brilltek

Mar 2020 – Oct 2021

Backend Engineer

- Developed backend service with Node.js, and MariaDB.
- Build Docker images for projects and deployed to DockerHub.
- Refactor old projects to modern ES6 standards. Clean up code and improve code quality.

## Education

### National Chengchi University

Sep 2021 – Jan 2024

Master in Computer Science

Minors: Applied Cryptography

### National Taiwan University

Sep 2015 – Jun 2019

Bachelor in Computer Science and Information Engineering

## Activities

### AWS Summit

Jul 2024

- Speaker of AWS Summit Taipei Meetup sharing experience of using Control Tower and AWS Organizations.
- Sharing knowledge of AWS security and compliance to meet FDA compliance.

### Cryptography Algorithms Implementation

2023

- Applied pbc and gmp library to implement cryptographic algorithms.
- Build Docker images for easy setup clean environment for development algorithms and testing.