Poldet Assanangkornchai

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PROFILE

Backend engineer with 10+ years of experience specializing in Node.js, TypeScript, and microservices architecture. Expert in building high-performance RESTful APIs and scalable messaging systems. Proven track record in database optimization (MySQL, Redis), monorepo management with Turborepo, and DevOps automation with containerization and CI/CD pipelines.

SKILLS

Programming & Development

Node.js & TypeScript, Bash, MySQL, PostgreSQL, Redis, MongoDB, RESTful APIs & Microservices Architecture, TailwindCSS, React, NextJS, Drizzle ORM, Swift, SwiftUI, UIKit, Turborepo.

Infrastructure & Cloud

AWS, EC2, S3, RDS, Lambda, CloudFormation, Secret Manager, EKS, ECR, Kubernetes, Terraform, Docker, ArgoCD, External Secrets, Keda, EBS CSI, Drone CI, Grafana, Prometheus Stack.

EXPERIENCE

Lead DevOps Engineer, SS&C Technologies, Inc.; Bangkok, Thailand — 2025-Present

- **Authentication & Security**: Implement authentication infrastructure using Keycloak, Active Directory, and Nginx, ensuring security compliance for critical fund management platforms
- **Cloud Migration**: Oversee migration from AWS to private cloud infrastructure, managing Windows Server environments with Ansible automation and Terraform

Senior Development Team Lead, If You Can CO., LTD; Bangkok, Thailand — 2022-2025

- **Microservices Architecture**: Designed and implemented microservices-based messaging platform using Node.js, TypeScript, Express, and MySQL, serving customers across multiple countries
- **High-Performance API Development**: Built RESTful APIs handling 1M+ messages per batch with optimal resource utilization through connection pooling, query optimization, Redis caching strategies, asynchronous microservices architecture
- **Monorepo Implementation**: Architected Turborepo-based monorepo structure managing 10+ packages including backend services, shared libraries, and Lambda functions, reducing build times from 30 minutes to less than 3 minutes
- **Database Optimization**: Designed and optimized MySQL database schemas with Redis caching layer, implementing connection pooling and query optimization techniques that reduced response times from 3 - 10 seconds to < 100 milliseconds
- **Real-time Communication**: Implemented WebSocket-based real-time chat system with Redis pub/sub for horizontal scaling, enabling multi-instance deployments with message broadcasting
- **Message Queue Processing**: Architected SQS-based asynchronous message processing system with retry logic and dead-letter queues, ensuring high message delivery reliability, implementing exponential backoff and 3-retry strategy for failed messages

- **Kubernetes Orchestration**: Led modernized containerization efforts migrating Node.js 10+ applications to Kubernetes (EKS) across dev, staging and production environments, implementing Kustomization, horizontal pod autoscaling, and zero-downtime deployments
- **CI/CD Pipeline**: Pioneered CI/CD automation with Drone CI and GitHub Actions for monorepo deployments, implementing automated testing, linting, and multi-environment deployments to Kubernetes, reducing deployment time from several hours to less than an hour
- **Infrastructure as Code**: Architected and maintained Terraform modules for AWS infrastructure including EKS clusters, RDS databases, Lambda functions, and networking components, managing infrastructure across dev, QA, and production environments
- **Security & Compliance**: Key contributor to achieving ISO27001 and SOC2 certifications through implementation of security best practices, automated compliance monitoring, and secrets management with AWS Secrets Manager, reducing 10,000+ vulnerabilities
- **Team Development**: Successfully mentored 5+ engineers, promoting 2 team members to senior positions
- **Cost Optimization**: Reduced cloud infrastructure costs by 30% through sharing nodes with Kubernetes, rightsizing, reserved instances, and automated scaling policies
- **Monitoring & Observability**: Implemented comprehensive monitoring stack using Grafana and Prometheus, improving system visibility and debugging capabilities across 10+ microservices, Enabling performance optimizations

iOS Engineer, If You Can CO., LTD; Bangkok, Thailand — 2018-2022
- Led the mobile development team, overseeing iOS and Android development.
- Managed team workloads and ensured efficient delivery of high-quality software.
- Provided technical mentorship to improve team members' development skills.
- Collaborated with product design and business teams to define roadmaps and deliver user-focused solutions.

Full-Stack Developer, The Coral Executive Lounge; Phuket, Thailand — 2016-2018
- **Backend API Development**: Built RESTful APIs using Node.js with MongoDB, deployed using Docker containers, serving 15K requests/day.
- **Infrastructure as Code**: Implemented CI&CD pipelines using Drone CI and BuildKit, deploying 3 services on Kubernetes
- **Business Collaboration**: Collaborated with product design and business teams to define roadmaps and deliver user-focused solutions

EDUCATION
Bachelor of Engineering in Computer Engineering, Hat Yai, Songkhla — 2010-2014

AWARDS
Thailand's representatives at Asia Pacific ICT Alliance Awards at Hong Kong (APICTA) in 2013
Rank 2nd Thailand ICT Awards (2013)
Rank 1st (Winner) National Software Contest (2013)
Rank 4th National Software Contest (2012)