

Luan Phan

Technical Team Lead | Full-stack Software Engineer | Financial Systems
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PROFILE

Technical Team Lead with 10+ years of experience building scalable financial platforms on AWS. Specializes in distributed systems, cloud infrastructure, and leading high-performing engineering teams.

EXPERIENCE

Coder Trove - Vietnam

Technical Team Lead — Sept 2023 – Present

- Lead a team of 12+ engineers, establishing engineering standards through code reviews and tooling (ESLint, Prettier, SonarCloud)
- Define system architecture, driving a modular, feature-based approach for scalability and faster delivery
- Spearhead the decomposition of a monolithic application into domain-driven services, enabling independent scaling and faster feature delivery
- Own incident response and production reliability initiatives, reducing downtime and improving system stability
- Design and maintain data architecture, including schemas, pipelines, and data flows
- Implement secure and scalable backend patterns (DTO validation, ReBAC authorization, audit logging)
- Improve system observability through structured logging, monitoring, and error tracking, enabling faster incident detection and resolution
- Coordinate cross-system integrations with banks (ANZ, CBA) and accounting platforms (Xero, MYOB), ensuring reliable financial data synchronization
- Provide technical guidance and infrastructure support for AI agent development, ensuring scalable and reliable operations

Senior Full-stack Software Engineer — Jun 2019 – Sept 2023

- **AWS Cloud & Infrastructure:** Architected and operated AWS infrastructure with CI/CD pipelines, ensuring 99.9%+ availability, security, and fault-tolerance using retry strategies and dead-letter queues.
- **Platform Development:** Designed and developed a scalable B2B financial platform using TypeScript, Node.js, and GraphQL; migrated legacy systems to modern TypeScript architecture.
- **Event-Driven Architecture:** Implemented SQS/SNS-based workflows for scalable financial data processing.
- **Financial Domain Features:** Delivered invoice factoring, credit facility management, and compliance workflows.
- **Performance Optimization:** Reduced API response times from >30s to <2s (>15x improvement), optimized MongoDB schema and query performance, and resolved GraphQL N+1 issues with caching strategies.
- **Frontend Architecture:** Migrated from Next.js v8 to v14 with a reusable, type-safe component system, improving both page speed and developer experience.

Tinselworks Sdn Bhd — Malaysia

Full-stack Developer & DevOps Engineer | Apr 2018 – May 2019

- Developed an ETH-based blockchain game, including smart contracts in Solidity and integration with a Node.js backend (Web3.js)
- Designed and deployed AWS infrastructure (EC2, S3) to support blockchain and web services
- Set up Geth nodes and managed Ethereum network infrastructure
- Implemented CI/CD pipelines using GitLab CI for automated testing and deployment
- Built a POS system (Electron + React), including database design and hardware integration (thermal printer, barcode scanner)
- Led a small team (2–3 engineers), contributing to planning, delivery tracking, and technical decisions

EdgeWorks German R&D Software Ltd. — Vietnam

Full-stack Developer & DevOps Engineer | May 2016 – Mar 2018

- Developed and maintained SaaS applications, including an online learning platform and a venue booking system
- Built full-stack features using Node.js, React, and PHP (Laravel/Yii2), improving performance and user experience
- Designed and optimized MySQL queries for high-traffic workflows
- Contributed to microservices architecture by integrating and customizing open-source components
- Containerized services using Docker and implemented deployment workflows with OpenShift
- Collaborated directly with clients to gather requirements and deliver features in an agile environment

TECHNICAL SKILLS

Languages & Core: TypeScript, JavaScript (Node.js)

Frontend: React, Next.js

Backend & APIs: GraphQL, REST, API Design, Authentication & Authorization

Cloud & Infrastructure: AWS (VPC, ECS, EC2, S3, RDS, DynamoDB, ElastiCache, SQS, SNS, CloudWatch, Lambda), AWS CDK & Terraform

Architecture & System Design: Distributed Systems, Scalable System Design, Strangler Fig Pattern, Event-driven Architecture (SQS/SNS)

Data & Storage: NoSQL & Relational Databases (MongoDB, DynamoDB, RDS), Data Modeling, Backup & Recovery

DevOps & CI/CD: Bitbucket Pipelines, CI/CD Design, Monitoring & Observability (Sentry, CloudWatch)

Code Quality & Testing: Jest, Unit Testing, Dependency Injection, ESLint, Prettier, SonarCloud

Integrations: Financial Systems Integration (ANZ, CBA, GreenID, CreditorWatch, Xero, MYOB)

EDUCATION

Lac Hong University, Bachelor's degree, Information Technology — 2011 – 2016