THI NGUYEN DINH

Senior Solutions Architect — Generative AI, Agentic Systems & Enterprise Cloud

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PROFESSIONAL SUMMARY

Solutions Architect and builder with 20 years in software: .NET developer, startup founder, principal engineer and technical architect, and Senior Solutions Architect at AWS for the past 4+ years. GenAI Champion for AWS Vietnam for the past two years and recognized internally as the #1 SA for GenAI contribution. I take LLM and agentic products from prototype to production for startups, ISVs, and regulated enterprises — architecture, model evaluation, context engineering, security and isolation, and cost/latency tuning — and I modernize business-critical workloads (core banking, SAP, legacy databases) on the cloud. Consulted on 50+ projects across banking, fintech, insurance, e-commerce, and manufacturing. Three public AWS case studies in two years; open-source GenAI repository with 380+ stars; 80+ talks and 100+ workshops. Three degrees (Computer Science, Business Administration, Banking & Finance Law) and 33 certifications.

CORE COMPETENCIES

Generative AI & LLM applications • Agentic systems (multi-agent, tool use, A2A, MCP) • Evaluation frameworks & model selection • Prompt & context engineering • RAG • LangGraph • CrewAI • OpenAI Agents SDK • Amazon Bedrock & AgentCore (Claude, Nova) • Solution & enterprise architecture • Cloud migration & modernization • Microservices, Kubernetes (EKS/AKS), ECS/Fargate • Serverless & event-driven (Lambda, SQS/SNS, EventBridge, Kafka, Kinesis) • Data & analytics (Redshift, Glue/Spark, Athena, EMR) • Databases (Aurora, PostgreSQL, SQL Server, Oracle, DynamoDB, MongoDB) • CI/CD & DevOps • Security, identity (SAML2, OpenID Connect) & compliance • Python • JavaScript (React, Angular, Knockout.js, jQuery) • .NET / C#

PROFESSIONAL EXPERIENCE

Amazon Web Services (AWS) — Senior Solutions Architect

Jul 2025 – Present | Ho Chi Minh City

- **Katalon (testing-platform startup serving global enterprises):** moved their AI from an OpenAI-based prototype to Claude on Amazon Bedrock, then to the first Bedrock AgentCore production deployment in Vietnam. Designed per-session runtime isolation and per-tenant storage for compliance, then traced latency to image size and warm-pool configuration (cold start ~15s → ~1s). Two public AWS case studies; featured at re:Invent 2026; 70% faster QA testing, +30% ROI.
- **AI developer tooling at a top Vietnamese bank:** analyzed per-developer token usage (the switch to token pricing would have cost ~18x the flat rate); moved 50 developers to governed Claude Code on Bedrock through a LiteLLM gateway with per-developer cost caps; then led adoption of Kiro (90 licenses) with steering, hooks, and test harnesses.
- **Enterprise AI assistant:** architected the Amazon Quick integration with the bank's intranet and is driving Salesforce and SharePoint integrations; ran enablement workshops for business and technical leaders.
- Architected GenAI solutions on Amazon Bedrock: intelligent document processing, AI-powered financial analysis, and agentic workflows; built reusable architectures and internal tools that accelerate customer adoption.
- Technical lead for 20+ GenAI projects a year; 16+ talks in 2026 alone. AWSome All-Star Award for organizing a hackathon that recruited 300 candidates for a major banking customer.

Amazon Web Services (AWS) — Solutions Architect

Jul 2022 – Jun 2025 | Ho Chi Minh City

- Led the AWS technical engagement for Vietnam's first Temenos core banking deployment on AWS (VIB): supported the evaluation of two core banking platforms, won the competitive PoC against Oracle Cloud by challenging an oversized 3M-IOPS vendor requirement (actual need ~75K) and isolating a database-tuning issue; later right-sized Aurora 48xlarge → 16xlarge and cut the Close-of-Business batch from 5h to 3h.

- Supported Honda Vietnam's SAP ECC → S/4HANA migration to AWS with their SAP partner: led a Well-Architected Review (SAP Lens, network & security), ran six enablement sessions, and unblocked a failing database cutover by introducing AWS DMS; some reports became 60–90% faster.
- Led TymeX / TymeGroup's modernization across digital banks in South Africa and the Philippines: ECS and event-driven architecture programs that upskilled 200+ engineers, 14 architecture-board reviews, and the GenAI developer-productivity rollout (CodeWhisperer, Amazon Q, Bedrock) — ~40% productivity gain, unit-test time 5h → 30 min; public case study.
- Delivered Amazon Personalize for a major retailer's e-commerce platform from demo to production in 2 months (65% lower bounce rate).
- Advised customers and partners on architecture, onsite training, and reviews across digital banking/fintech, e-commerce, e-learning, manufacturing, and logistics; mentored partners (Cloud Kinetics, Renova, SoftwareOne) to deliver GenAI projects.

  Tech: EC2, ELB, networking • Aurora, PostgreSQL, Oracle, SQL Server • Lambda, DynamoDB, SQS, SNS, EventBridge, Kafka, Kinesis • Redshift, Glue/Spark, S3, Athena, EMR • GenAI, computer vision, recommendation engines

KMS Technology — Solutions Architect / Technical Architect

Jan 2020 – Jul 2022 | Ho Chi Minh City

- Led 35 engineers across multiple workstreams for international clients.
- Migrated a legacy MS SQL Server database to Aurora PostgreSQL: 10x performance improvement and $20K+/month savings.
- Architected microservices on AWS (Aurora, SQS, SNS, S3) and Azure (App Service, AKS, Functions, API Management, Cosmos DB, Service Bus, Key Vault) to modernize monolithic systems.
- Designed CI/CD pipelines, event-driven architectures, and API management strategies for production applications.

  Tech: .NET Core, React, Aurora PostgreSQL, Azure AKS, Cosmos DB, SQS/SNS, S3

4xLabs — Technical Architect / Senior Technical Leader

Sep – Dec 2019 | Vietnam

- Fintech startup (Biz4x.com: platform for money-services businesses, compliance and market data). Defined and led the transformation from monolith to microservices on Kubernetes and AWS.
- Defined CI/CD for multiple projects (TeamCity, Azure DevOps); set up and managed AWS dev/test and production environments.

  Tech: Angular, .NET Core, AWS (EKS, EC2, RDS, CloudWatch, Route 53, ELB, S3), Kubernetes, MySQL, DynamoDB, SignalR

NashTech — Principal Software Engineer → Technical Architect

Dec 2014 – Sep 2019 | Ho Chi Minh City

- Built a microservices framework from zero (.NET Core, AWS Fargate/EKS, SQS, SNS, RDS) with CI/CD via Bitbucket Pipelines and AWS CodePipeline; grew the engineering team from 10 to 35 in 3 months while maintaining delivery velocity.
- Led a 12-person team in an 80-engineer program: multi-tenant SaaS platform serving millions of users on terabyte-scale databases.
- Achieved 99.5% SLA through DevOps practices: canary deployments, 90% code coverage, thousands of automated tests, and zero-downtime backward-compatible releases.
- Mentored senior engineers and interviewed hundreds of candidates; as Azure trainer, created 6 courses and delivered 18 sessions to 60+ engineers, building NashTech's Azure capability from the ground up.

  Tech: .NET Core, MVC/Web API, Angular, React, Knockout.js, jQuery, MS SQL, MySQL, DynamoDB, Salesforce integration (SAML2, OpenID Connect), Selenium, TFS, Jenkins

Augen Software Group — Technical Leader

Dec 2012 – Nov 2014

- Technical lead for 2 projects: hands-on implementation, solution design, code reviews, team training, and evaluation of new technologies.

GNT — Project Leader / Team Leader

Oct 2011 – Nov 2012 | Vietnam

- Led a 15-member team building an enterprise e-commerce platform with multi-shop management, content design, and search.
  Tech: ASP.NET MVC4, MS SQL 2008, MongoDB, Apache Solr, IIS

Aperia Solutions — Senior Software Engineer

Mar 2010 – Jul 2011

- Built banking card-processing systems: credit-card processing reports (deposits, returns, chargebacks), 1099-K management, and PCI-related features.
- Optimized a critical data-processing pipeline from 2 hours to 5 minutes (24x).

FetCo — Founder & Technical Leader

Apr 2008 – Feb 2010

- Founded and ran a software company: company strategy, all client projects (micro-sites, e-commerce, real estate), recruiting, and training.

Global Cybersoft — Software Engineer

Sep 2006 – Mar 2008

- Maintained internal web systems (ASP Classic, VB6, Crystal Reports); R&D pilots in J2EE (Struts 2, Spring, Hibernate) and PHP (Symfony).

PUBLISHED CASE STUDIES

- **Katalon True Platform (agentic QA on Bedrock AgentCore):** aws.amazon.com/solutions/case-studies/katalon-bedrock-case-study/
- **Katalon Scout (AI testing agent, built in 1 month):** aws.amazon.com/solutions/case-studies/katalon/
- **TymeX (GenAI developer productivity, ~40% gain):** aws.amazon.com/solutions/case-studies/tymex/

OPEN SOURCE, SPEAKING & COMMUNITY

- AWS-First-GenAI-Journey: 24 demo/reference GenAI apps on Amazon Bedrock (translation, financial analysis, HR automation, OCR, image processing, multi-modal); 380+ stars, Top 200 in the aws-samples org; reused by AWS teams across regions.
- 80+ keynotes and technical sessions (AWS Summits, industry conferences, executive briefings) and 100+ hands-on workshops across Vietnam and SEA; designed and spoke on the AWS track at Southeast Asia's largest AI buildathon (3,300+ builders, with GenAI Fund).
- Judge for 10+ hackathons (startups, enterprises, universities), incl. Swinburne, GenAI Builder, and VPBank.

EDUCATION

Bachelor of Computer Science — HCMC University of Science (HCMUS), 2002–2006

Bachelor of Business Administration — University of Economics HCMC (UEH), 2006–2009

Master of Banking, Corporate, Finance & Securities Law — Ho Chi Minh City Open University, 2010–2013

CERTIFICATIONS & RECOGNITION

AWS (9 active): GenAI Developer Professional • Solutions Architect Professional • ML Specialty • ML Engineer Associate • Security Specialty • Data Analytics Specialty • Database Specialty • SA Associate • AI Practitioner

Microsoft (11): MCSE Cloud Platform • 2× MCSD App Builder • MCSA Cloud Platform • MCSA Web Apps • 6 Azure/platform exams

Other: Introduction to Model Context Protocol • MongoDB Certification for AWS SAs

Recognition: Architect of the Year (2 years running) • Rookie of the Year • Innovation Architect of the Year • AWSome All-Star • GenAI Champion, Vietnam (2 years)