

Trinh Van Thuong

System Architect

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PROFILE

System Architect with experience in fintech, payments, consumer finance, IoT operations, and enterprise AI platforms. Work covers requirement discovery, process mapping, solution design, API and integration flows, data rules, access control, audit trails, reconciliation, and delivery support. Comfortable working with business users, compliance teams, vendors, and engineers to turn product and operational needs into clear specifications and systems that can be built, tested, and operated.

EXPERIENCE

Fintech Innovation Solution Joint Stock Company

2022–Present

Business Analyst / System Architect

- Gather and clarify business, compliance, operational, and technical requirements for fintech, payment, consumer-finance, AI, and IoT-related systems.
- Write functional specifications, user flows, process diagrams, data rules, API behavior, integration flows, access rules, and acceptance criteria.
- Design backend modules, partner integrations, event flows, transaction states, reconciliation logic, audit trails, and reporting data needed by operations and compliance teams.
- Coordinate with product owners, business teams, developers, QA, infrastructure teams, and external vendors from requirement review through testing and release.
- Review implementation gaps, support issue analysis, and adjust requirements or designs when business rules, regulations, or operational needs change.
- Support architecture decisions for platform structure, service boundaries, database usage, security permissions, deployment constraints, and non-functional requirements.

SELECTED PROJECTS

Enterprise AI Platform

2026

Business Analyst / System Architect

- Built an enterprise AI platform for knowledge retrieval, workflow automation, and operational analytics.
- Built RAG pipelines for document ingestion, chunking, hybrid retrieval, reranking, multilingual translation, and citation-backed AI responses.
- Implemented Gmail-to-task ingestion, meeting transcription and summarization, dashboard analytics, file generation, and SSE chat streaming.
- Designed multi-tenant edition isolation, role and tier access control, OAuth connectors, semantic caching, and monitoring with Prometheus, Grafana, and Langfuse.

Cross-Border Remittance Platform

2025

Business Analyst / System Architect

- Defined target architecture and requirement scope for a regulated remittance platform handling customer onboarding, transaction processing, compliance checks, and reconciliation.
- Mapped transaction states, settlement flow, exception handling, dispute handling, and reporting needs for business and operations teams.
- Designed modular eKYC and risk-check components so policy rules could change without changing core transaction processing.
- Defined audit trail, traceability, and reconciliation requirements to support compliance review and transaction investigation.

Facility Management and Security Platform

2025

Business Analyst / System Architect

- Designed a shared platform for physical security, IoT access control, device events, monitoring, and operational workflows.
- Clarified user roles, access rules, approval flows, device lifecycle behavior, and operational responsibilities across security-sensitive functions.
- Used event-based processing for frequent access, device, and monitoring events while keeping device logic separate from core management services.
- Defined logs, permission boundaries, and accountability rules to reduce misuse and help operations review incidents.

Customer Engagement and Analytics Platform Integration

2024

Software Developer

- Designed the integration layer between core financial systems and a customer engagement platform.

- Worked through data exposure rules, customer event definitions, consent-related boundaries, and access limits for analytics and personalization use cases.
- Defined controlled event propagation so engagement features could use customer behavior data without exposing sensitive core financial data.
- Prepared integration behavior and data mapping for engineering and vendor teams.

Consumer Financing Management System

2023

Software Developer

- Designed a modular financing platform to support loan products, repayment flows, customer status, fees, approval steps, and operational controls.
- Mapped financial state changes so loan events, account updates, repayments, adjustments, and exceptions could be traced and audited.
- Defined access-control rules for sensitive financing functions and separated responsibilities between business, operations, and system users.
- Supported requirement clarification, implementation review, and testing alignment with business and engineering teams.

Digital Payment and Subscription Management Platform

2022

Software Developer

- Defined payment, subscription billing, validation, transaction status, and operational support flows.
- Designed event-based reconciliation between payment status and physical access control so service access could be updated based on payment results.
- Prepared API and integration flow requirements for payment services, subscription logic, account status, and operation checks.
- Supported delivery by clarifying edge cases around failed payments, delayed confirmation, access updates, and reconciliation results.

TECHNICAL SKILLS

Business Analysis	Requirement gathering, process mapping, user flows, user stories, functional specifications, acceptance criteria, UAT support, stakeholder coordination
System Design	API behavior, integration flow, event flow, service boundary, transaction state, access control, audit trail, reconciliation, reporting data
Domains	Fintech, payments, remittance, consumer finance, subscription billing, regulated systems, IoT access control, enterprise AI workspace
AI Platform	RAG, document ingestion, chunking, hybrid retrieval, reranking, citation-backed answers, Claude, Ollama, LiteLLM, semantic cache
Data and Backend	PostgreSQL, SQL Server, SQLite, MongoDB, Redis, Qdrant, Python, FastAPI, Node.js, TypeScript, Next.js, Docker
Cloud and Delivery	AWS, GCP, hybrid cloud, on-premise systems, OAuth connectors, SSE, Prometheus, Grafana, Langfuse, Agile, Scrum, Waterfall
Project Management	ClickUp, Trello, Jira, Notion, task tracking, sprint planning, backlog management, release coordination

SOFT SKILLS

Clear communication, requirement clarification, cross-team coordination, documentation, issue analysis, time management, attention to detail, vendor coordination

HONORS & AWARDS

1st Prize, Game Programming and Design Contest on Microsoft MakeCode Arcade	May 2022
Issued by Gameloft	

EDUCATION

Ton Duc Thang University	2018–2022
Bachelor of Software Engineering	Vietnam

LANGUAGES

Vietnamese: Native | English: Professional working proficiency