



Vo Thanh Do

Middle Software
Engineer

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PROFESSIONAL SUMMARY

Middle Software Engineer with a **builder mindset** - designed and built **Core CRM Platform** from zero-to-production, owning **AI & Automation systems** that reduce manual work across Marketing, CS, and Logistics. Strong in **C#.NET** and **TypeScript/NestJS/Next.js**, **multi-tenant architecture**, **event-driven messaging** (RabbitMQ), and **workflow engines**. Drives **System Design** decisions with focus on **scalability**, **security**, and measurable business impact.

KEY STRENGTHS

- Event-driven mindset & resilient messaging.
- DI-first architecture; clean boundaries.
- Test-first delivery; security-aware engineering.
- AI pragmatism with measurable impact.
- Agile/CI-ready; builder mentality.

EDUCATION & CERTIFICATIONS

- Information Systems Engineer (UIT)
- TOEIC 705

TECHNICAL SKILLS

- **Backend:** ASP.NET / .NET Core, NestJS
- **Frontend:** Next.js
- **Event-driven Microservices:** RabbitMQ, Pub/Sub & Work Queues, Idempotency & Retries, DLQ, Transactional Outbox
- **Testing:** Playwright, Cypress
- **Caching & Performance:** Redis
- **Data:** PostgreSQL, SQL Server
- **Cloud & DevOps:** AWS, Google Cloud, CI/CD, Docker, Kubernetes
- **Agile:** Scrum

WORK EXPERIENCE

Middle Software Engineer - Full-Stack

Jul 2023 - Present

Spiraledge, Inc (Hybrid)

- **Systems & Ownership:** Core CRM Platform (API, Middleware, RBAC) - owned end-to-end; Automation Workflow Engine for business processes & AI search; Retailer Systems: Internal Tools and Online eCommerce features (Team Stores, Customer Favorites, Buying & Logistics).
- **System Architecture:** Multi-tenant design (Tenant/Business Unit/User isolation); dynamic RBAC with granular permissions; flexible data model (Object/Attribute/Condition); workflow engine for complex business processes; natural language search.
- **Microservices (.NET & NestJS):** Designed/decomposed services by bounded contexts; DI-first, versioned REST, OpenAPI/Swagger, clear service boundaries.
- **Event-driven (RabbitMQ):** Built pub/sub & work-queues with routing keys; idempotent consumers, retry/backoff, DLQ; transactional outbox for data/event consistency.
- **AI & Automation:** LLM agents for CS support & marketing reports; AI size chart → reduced manual data entry; AI import → accelerated data processing for Logistics; human-in-the-loop for low-confidence cases; validation, rate-limits, audit trails.
- **AI parsing & content:** Semi-structured inputs → strict JSON with schema validators/fallbacks; automated accessibility content; FE consumption designed to avoid UX regressions.
- **Caching & Data:** Redis for caching & performance; PostgreSQL/SQL Server (schemas, migrations, indexing, query shaping).

- **Integration & Operations:** Shopify, Amazon SP-API, Walmart WFS, Attentive, Kustomer; data consistency between ERP & sales channels; production stability & monitoring.
- **Frontend (Next.js):** Shipped SSR-safe CRM/Admin UIs with typed forms, schema validation, accessible states, error boundaries, and defensive rendering.
- **Testing & test automation:** Converted high-priority manual test cases → automated using Playwright (E2E) for CRM/Admin journeys; headless CI runs with reports/artifacts. Cypress (E2E smoke), Postman regression; contract tests for API clients.
- **Cloud & DevOps:** Containerized services; AWS; CI/CD with GitHub Actions/GitLab CI.
- **Security:** Applied OWASP controls (input validation, rate-limit, authZ policies); secret rotation & CI secret-scanning; coordinated pen-test fixes; standardized error taxonomy.
- **Agile & leadership:** Full Scrum cadence (planning/refinement/review/retro); partnered with QA/Product on DoD & acceptance criteria; mentored fresher engineers and facilitated weekly code reviews.
- **Impact:** Reduced manual workload for Marketing, CS & Logistics via AI automation; improved data accuracy across ERP & sales channels; designed scalable architecture enabling new channel integrations without major refactoring.

Junior Software Engineer - Full-Stack

Sep 2022 - Jun 2023

Spiraledge, Inc (Onsite)

- **Backend:** REST endpoints with ASP.NET Web API & NestJS (controllers, DTO validation), OpenAPI/Swagger; consistent error model.
- **Queues:** RabbitMQ for small background tasks; basic retry/backoff & DLQ; logged processing results for debugging.
- **Data modeling:** PostgreSQL & SQL Server schemas; added index/pagination; small migrations.
- **Frontend:** Next.js pages (auth, forms, tables); controlled forms with validation; SSR-safe data fetching.
- **Testing & CI:** Cypress/Playwright smoke for login/CRUD; Postman runner; GitHub Actions/GitLab CI (build/test/lint).
- **Cloud & security:** exposure to AWS S3/CloudWatch logs; minimal-privilege IAM; OWASP basics (input validation, CORS, rate-limit).
- **Agile:** stand-ups and planning.

Fresher .NET - Desktop & Web Foundations

Mar 2022 - Aug 2022

ISB Vietnam Co., Ltd (Onsite)

- **ASP.NET foundations:** small MVC/Razor modules (auth/CRUD), session/cookie handling; connected SQL Server via EF/stored procedures.
- **HTML/CSS/JS:** semantic pages, forms, DOM events, mobile-first layouts.
- **Frontend basics:** small SPA consuming REST endpoints.
- **WPF (.NET, Prism/MVVM):** device-management UI (USB), configuration screens, persisted settings.
- **Agile & CI:** learned stand-ups and code reviews; minimal build/test pipeline.