



Vo Thanh Do

Middle Software
Engineer

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PROFESSIONAL SUMMARY

Middle Software Engineer with a **builder mindset**-taking systems from **zero-to-one** and scaling them safely. Strong in **C#/.NET Web API** and **TypeScript/NestJS/Next.js**, **DI-first architecture**, **event-driven messaging (RabbitMQ)**, and pragmatic **data modeling (MongoDB + SQL)**. Drives **AI/Automation** (agents, parsing, content) with guardrails and measurable outcomes. **Automation testing (Playwright/Cypress)**, operating in **Agile (Scrum)** and shipping reliably via **CI/CD**.

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, Web API/MVC/Razor, NestJS, OpenAPI/Swagger, OAuth/JWT
- **Frontend:** Next.js, React
- **Microservices & Messaging:** RabbitMQ, Pub/Sub, Work Queues, Idempotent Consumers, DLQ, Transactional Outbox
- **Testing:** Playwright, Cypress
- **Search & Data:** Elasticsearch, MongoDB, PostgreSQL, SQL Server
- **Cloud & DevOps:** AWS, GitHub Actions, GitLab CI/CD, Docker, Kubernetes
- **Agile:** Scrum

WORK EXPERIENCE

Middle Software Engineer - Full-Stack

Jul 2023 - Present

Spiraledge, Inc (Hybrid)

- **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 Agents & Automation:** Implemented tool-using LLM agents to look up/summarize/update records across services; added validation, rate-limits, audit trails, and human-in-the-loop for low-confidence cases.
- **AI parsing & content:** Converted semi-structured inputs → strict JSON with schema validators/fallbacks; automated accessibility content; FE consumption designed to avoid UX regressions.
- **Search & data:** Elasticsearch (index/analyzers, query DSL, search_after, zero-downtime reindex); MongoDB + PostgreSQL/SQL Server (schemas, migrations, indexing, query shaping).
- **Frontend (Next.js/React):** 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.
- **Third-party (summary):** Shopify, Amazon SP-API, Walmart WFS, Attentive, Kustomer - AI agent/chatbot (integrations & API consumption).
- **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.

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:** simple MongoDB collections & SQL schemas; added index/pagination; small migrations.
- **Frontend:** React/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.
- **React 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.