

LAM NGUYEN

Senior .NET Full Stack Developer

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PROFESSIONAL SUMMARY

Senior Full Stack .NET Developer with 10+ years of experience designing, building, and deploying enterprise-scale web, desktop, and cloud-native applications. Deep expertise in SOLID principles, Clean Architecture, RESTful API design, and relational/NoSQL database design, combined with hands-on mastery of the Azure platform — Logic Apps, App Services, Function Apps, Azure Storage, Service Bus, and API Management. Experienced across the full stack from Angular/React SPAs and WPF desktop clients to event-driven microservice backends. Proven ability to lead technical design, mentor developers, and deliver high-performance systems from concept through production in the Healthcare and Banking domains.

CORE SKILLS

- **Software Design Principles:** SOLID (SRP, OCP, LSP, ISP, DIP), DRY, KISS, Separation of Concerns, GoF Design Patterns, Dependency Injection, Domain-Driven Design, Clean Architecture, CQRS, Event-Driven Architecture, Microservices
- **API Design:** RESTful API design (resource modeling, versioning, pagination, idempotency, HATEOAS), contract-first design with OpenAPI/Swagger, API security (OAuth 2.0 / PKCE, JWT, RBAC), API gateway patterns with Azure API Management, gRPC, SignalR real-time APIs
- **Database Design:** Relational schema design & normalization (3NF), indexing strategies, query performance tuning & execution plan analysis, stored procedures, partitioning, NoSQL data modeling (Cosmos DB partition-key design, MongoDB), keyset pagination, migration strategies with EF Core
- **Azure Services:** Logic Apps (enterprise workflow orchestration, connectors), App Services, Function Apps (serverless, Durable Functions patterns), Azure Storage (Blob, Queue, Table), Service Bus, API Management, Key Vault, Container Apps, Cosmos DB, Redis Cache, Azure AD B2C, SignalR Service, Cognitive Search, Front Door, Application Insights, Azure Monitor
- **Backend:** C#, .NET 8/9, ASP.NET Core, Web API, EF Core, Dapper, MediatR, FluentValidation, LINQ, Hangfire
- **Frontend & Desktop:** Angular, React, TypeScript, JavaScript, HTML5, CSS3, Bootstrap, Blazor, WPF (MVVM, XAML, data binding, custom controls)
- **DevOps & Infrastructure:** Docker, Kubernetes, Terraform, Azure DevOps, CI/CD YAML pipelines, Git
- **Databases:** SQL Server, PostgreSQL, MySQL, MongoDB, Cosmos DB, Redis
- **Testing:** xUnit, NUnit, Moq, Playwright, Integration Testing, TDD

PROFESSIONAL EXPERIENCE

PNK Connection – Full Stack Developer | Jul 2024 – Present

- Architected backend on .NET 8 Clean Architecture with strict adherence to SOLID principles — interface-segregated application services, dependency inversion via built-in DI, and MediatR CQRS with FluentValidation — covering full asset lifecycle across loosely coupled bounded contexts.
- Designed versioned RESTful APIs contract-first with OpenAPI/Swagger, applying resource modeling, idempotent endpoints, and consistent error contracts; published and secured them behind Azure API Management with policy-based throttling.
- Designed the relational schema in SQL Server (normalized core model, covering indexes, row-level security) and modeled Cosmos DB containers with partition-key strategy for an immutable audit log.
- Built a feature-rich Angular 17 SPA with Signals for reactive state, lazy-loaded modules, role-based UI rendering, and a drag-and-drop report builder with PDF/Excel export and KPI dashboards.
- Engineered full-stack security with JWT Bearer middleware, policy-based RBAC, and PKCE OAuth flow via MSAL against Azure AD B2C.
- Designed event-driven architecture using Azure Service Bus, Azure Function Apps for asynchronous processing, Blob Storage for document handling, Redis distributed cache with keyset pagination, and SignalR real-time updates.
- Provisioned infrastructure with Terraform across dev/staging/prod; authored Azure DevOps YAML pipelines and configured observability via Application Insights, Serilog, and Azure Monitor.

Technologies: .NET 8, ASP.NET Core, C#, Angular 17, Angular Signals, MediatR, FluentValidation, EF Core, Clean Architecture, SOLID, SQL Server, Azure Container Apps, Azure API Management, Azure AD B2C, MSAL, Graph API, Azure Service Bus, Redis, Azure SignalR Service, Cosmos DB, Blob Storage, Azure Functions, Azure Key Vault, Azure Cognitive Search, Azure Front Door, App Insights, Serilog, Docker, Terraform, Azure DevOps Pipelines, xUnit, TypeScript, SignalR, SendGrid

GOTIK – Senior Full Stack Software Engineer | Dec 2019 – May 2024

- Delivered payment integration solutions and business-critical web applications for a Banking client, applying SOLID principles and design patterns (repository, strategy, decorator) to keep integration adapters replaceable and testable.
- Built and maintained Azure microservices hosted on Azure App Services and Azure Function Apps, communicating via Service Bus topics/subscriptions, with secrets in Key Vault and files in Azure Blob Storage.
- Designed public and internal Web APIs (REST, versioned, Swagger-documented) consumed by Angular/React frontends and third-party payment partners.
- Designed and tuned SQL Server databases for high-volume transaction processing — schema design, index optimization, execution-plan analysis, and stored-procedure refactoring — cutting key report queries' runtime significantly.
- Developed dynamic reporting and analytics modules (SSRS) for management decision-making.
- Authored unit and integration tests; mentored developers and led architecture and design reviews.

Technologies: ASP.NET MVC, Blazor, Entity Framework, Angular, React.js, TypeScript, C#, .NET Core, Web API, Azure App Services, Azure Functions, Azure Service Bus, Blob Storage, Key Vault, Azure DevOps, Microservices, SOLID, SQL Server, SSRS, xUnit, Bootstrap, Kendo, Telerik, Git, Sass, Docker

NETCOMPANY – Senior Specialist | Aug 2017 – Oct 2019

- Implemented enterprise integration workflows with Azure Logic Apps — orchestrating Dynamics 365, REST connectors, Service Bus queues, and custom Azure Functions into resilient, monitored business processes with retry and error-handling policies.
- Designed integration APIs and exposed them through Azure API Management with subscription keys, rate limiting, and transformation policies; documented all contracts with Swagger/OpenAPI.
- Modeled Cosmos DB collections and Redis caching layers for low-latency reads; designed relational schemas for workflow state and audit data.
- Improved application reliability, monitoring, and deployment processes across cloud-based services.

Technologies: .NET Core, Web API, Angular, Azure Logic Apps, Azure Functions, API Management, Redis, Cosmos DB, Service Bus, Key Vault, App Services, SignalR, Dynamics 365, Docker, xUnit, Moq, CI/CD, Swagger, InRule, FormIO

CONTEMI – Senior Software Engineer | Nov 2014 – Jun 2017

- Improved performance of large-scale Healthcare data processing systems by 40% through database redesign — normalization fixes, targeted indexes, and query rewrites in MySQL.
- Developed dashboards, reporting features, and integrations for business applications following CQRS and dependency-injection (Autofac) patterns aligned with SOLID.
- Implemented background processing and notification services with Hangfire.

Technologies: C#, MVC 5, Entity Framework 6, JavaScript, jQuery, Bootstrap, LINQ, Autofac, Hangfire, MySQL, CQRS, SOLID, Git, SCRUM, ASP.NET Identity

S3 – Software Engineer | Mar 2011 – Jul 2014

- Built and maintained WPF desktop applications using MVVM, XAML data binding, custom controls, and asynchronous UI patterns for enterprise line-of-business tools.
- Modernized legacy applications and migrated systems to ASP.NET MVC; developed WCF web services, reporting solutions, and enterprise software components.
- Designed database schemas and wrote optimized queries for SQL Server 2005 and PostgreSQL backing both desktop and web clients.

Technologies: C#, ASP.NET, MVC 3, WCF, WPF, MVVM, XAML, jQuery, NHibernate, NUnit, SQL Server 2005, IIS, XML, XSLT, PostgreSQL, TFS, SOA

EDUCATION

Master of Science in Computer Science – Maharishi International University

Bachelor of Science in Computer Science – University of Natural Sciences (VNU-HCM)