

CURRICULUM VITAE

NGUYEN HUU PHI

Software Engineer

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Overview

PROFESSIONAL SUMMARY

- Over 13 years of experience in software development, IT operations, and DevOps practices, with strong expertise in .NET technology, and both Waterfall and Agile project methodologies.
- Proven skills in Software Configuration Management, Build and Tools Automation, Release Management, and implementing CI/CD pipelines across on-premises and Azure Cloud environments.
- Extensive hands-on experience in managing and operating services on Microsoft Azure Cloud, including provisioning, monitoring, scaling, cost control, automation, and policy enforcement.
- Successfully led multiple cloud migration projects, including:
 - Migrating infrastructure and applications from AWS to Azure
 - Repatriating workloads from Azure Cloud to on-premises environments
- Solid background in DevOps Engineering, covering infrastructure monitoring, system administration, environment maintenance, technical support, training, and quality assurance testing.
- Played a key role in integrating IT systems during mergers and acquisitions, ensuring seamless adoption into existing processes, policies, and compliance frameworks.
- Strong stakeholder engagement and collaboration experience across global teams and time zones, with proven ability to work effectively in cross-cultural and cross-functional environments.
- In-depth understanding of Azure configuration and management systems, with a focus on automation, performance optimization, security, and operational excellence.

Technical Skills/Role

Role	Skill	Experience
.NET Software Engineer		Over 10 years
<ul style="list-style-type: none">• Technical leadership in backend .NET development• Mentoring junior developers and leading code reviews• End-to-end project ownership, from design through deployment• Strong focus on code quality, performance, and maintainability		
	.NET Platform & Backend Development	<ul style="list-style-type: none">• Proficient in C#, .NET Framework, .NET Core, and .NET 6+ for building scalable enterprise applications• Strong understanding and hands-on experience with OOP, SOLID principles, design patterns, and clean code practices• Extensive use of ASP.NET MVC, ASP.NET Core, and Web API for RESTful service development and deployment• Skilled in Windows Forms and legacy system maintenance and modernization
	ORM, Data Access & Database Design	<ul style="list-style-type: none">• Experienced with Entity Framework (EF & EF Core) for data access and model binding• Strong command of SQL, stored procedures, and database structure design (4+ years)• Proficient in writing complex queries, query optimization, and database normalization

	Code Quality & Maintainability	<ul style="list-style-type: none"> Experienced in code analysis, rule sets, and refactoring legacy codebases to align with modern standards Proficient in unit testing, mocking frameworks, and applying test-driven development (TDD) Hands-on experience with version control (Git), code review processes, and continuous improvement culture
	LINQ & Language Features	<ul style="list-style-type: none"> Advanced use of LINQ and Lambda Expressions for data querying and transformations in-memory and across layers
	Application Architecture & Solution Design	<ul style="list-style-type: none"> Involved in designing modular, layered architectures, applying DDD and microservice-oriented thinking. Familiar with dependency injection, middleware, and scalable configuration management.
Azure Cloud Engineer		5+ years
<ul style="list-style-type: none"> Strong understanding of Azure platform architecture, operations, and deployment best practices Experience working in production-grade cloud environments for mission-critical systems Collaborates closely with DevOps, security, and software engineering teams to ensure operational excellence Involved in cloud governance, resource standardization, and cost optimization initiatives 		
	Azure Core Services & Operations	<ul style="list-style-type: none"> Proficient in provisioning, configuring, and managing Azure App Services, App Configuration, and Azure SQL Database Experienced in implementing and managing Azure Resource Groups, Storage Accounts, Key Vault, App Insights, and Monitor Strong skills in role-based access control (RBAC), Azure Policy, and resource tagging for governance and compliance
	Infrastructure as Code & Automation	<ul style="list-style-type: none"> Familiar with using ARM templates, Terraform, and Azure CLI for resource provisioning Experience with PowerShell scripting and automation runbooks for task scheduling and cloud resource automation Knowledge of Terraform is a plus
	Azure DevOps & CI/CD Pipelines	<ul style="list-style-type: none"> Hands-on experience in Azure DevOps Services, including Repos, Pipelines, Artifacts, and Release Management Able to build, maintain, and troubleshoot multi-stage CI/CD pipelines for .NET applications Integrated automated testing and deployment workflows across Dev, QA, and Prod environments
	Migration Projects & Hybrid Solutions	<ul style="list-style-type: none"> Successfully led or participated in migration of workloads: <ul style="list-style-type: none"> From AWS to Azure From Azure Cloud to on-premises infrastructure Understanding of networking, identity, and security challenges involved in hybrid cloud deployments
	Monitoring, Optimization & Troubleshooting	<ul style="list-style-type: none"> Proficient in Azure Monitor, Log Analytics, Application Insights, and alerting mechanisms Experience with performance tuning, cost analysis, and usage optimization in cloud environments
DevOps Engineering		2.5+ years
<ul style="list-style-type: none"> Strong understanding of DevOps principles: automation-first, shift-left testing, infrastructure as code, and continuous improvement Hands-on in real-world CI/CD implementation and release pipelines in Azure and on-premises environments Drives efficiency, reliability, and repeatability across software delivery life cycle Contributes to DevSecOps by incorporating secure and compliant deployment practices 		

	CI/CD Automation & Pipeline Management	<ul style="list-style-type: none"> • Proficient in setting up and maintaining CI/CD pipelines using Azure DevOps, GitLab Pipelines, integrating build, test, and deployment stages • Experience in multi-environment release management with gated approvals and rollback strategies • Integrated automated tests, static code analysis, and security checks into delivery pipelines
	Infrastructure Provisioning & Configuration	<ul style="list-style-type: none"> • Experience with Infrastructure as Code (IaC) using ARM templates, Bicep, and PowerShell • Familiar with Terraform for cross-platform provisioning (intermediate level) • Automated provisioning of Azure resources including App Services, Function Apps, SQL Databases, and Key Vaults
	Source Control & Build Automation	<ul style="list-style-type: none"> • Skilled in managing Git repositories via Azure Repos, implementing branching strategies (Git Flow, Trunk-based) • Automated build processes for .NET applications with MSBuild, NuGet..., and YAML pipelines
	Monitoring, Logging & Alerting	<ul style="list-style-type: none"> • Integrated Azure Monitor, Log Analytics, Application Insights, and Alerts into DevOps workflows for visibility and reliability • Experience setting up dashboards and alerts for build/release health and infrastructure monitoring
	Collaboration & DevOps Culture	<ul style="list-style-type: none"> • Worked closely with development, QA, and infrastructure teams to foster a DevOps mindset and accelerate delivery • Promoted best practices in automated deployment, version control, and continuous feedback
Solution Architect		5+ years
<ul style="list-style-type: none"> • Combines technical depth in .NET and Azure with strategic thinking to deliver end-to-end architectural solutions • Balances technical feasibility, business impact, and long-term maintainability in every solution decision • Acts as a bridge between business and technology, ensuring alignment, scalability, and future readiness 		
	Application Architecture & System Design	<ul style="list-style-type: none"> • Experienced in designing modular, scalable, and high-availability architectures for enterprise applications using .NET and Azure Cloud • Applied Domain-Driven Design (DDD), Layered Architecture, and Clean Architecture principles to ensure maintainable and extensible systems • Designed and reviewed system blueprints, architectural diagrams, API contracts, and data flow specifications
	Technology Stack & Integration	<ul style="list-style-type: none"> • Strong understanding of .NET ecosystem (ASP.NET Core, MVC, Web API, Entity Framework, LINQ) and cloud-native design patterns • Familiar with RESTful API design, microservices architecture, and service orchestration • Experience integrating external systems via Web Services, Azure API Management, and internal APIs
	Database Design & Data Modeling	<ul style="list-style-type: none"> • Hands-on in database structure design, relational modeling, and performance tuning • Applied normalization, indexing, partitioning, and optimization strategies for SQL Server and Azure SQL Database • Designed solutions with data access patterns aligned with Entity Framework (EF Core) and repository/unit-of-work patterns

	Cloud Architecture	<ul style="list-style-type: none"> Designed cloud-native and hybrid-cloud solutions using Azure App Services, Azure Functions, Service Bus, Storage and more services, and Azure DevOps Applied best practices in cost optimization, resiliency, scalability, and resource governance on Azure Involved in planning and executing cloud migration strategies (AWS to Azure, Azure to on-premises) in alignment with business objectives
	Stakeholder Communication & Solution Alignment	<ul style="list-style-type: none"> Collaborated with product owners, developers, and business stakeholders to translate requirements into technical solutions Prepared architectural documentation, conducted design reviews, and ensured alignment with enterprise architecture standards Supported project teams through technical leadership, mentoring, and solution validation
Infrastructure & Cross-Functional Technical Skills		5+ years
<ul style="list-style-type: none"> Acts as a technical generalist with the ability to bridge gaps between Dev, Ops, Infra, and Frontend teams Strong in environment readiness, troubleshooting, and system-level configuration to support full software delivery lifecycle Valuable in cross-functional teams where flexibility and broad technical exposure are key 		
	System Administration & Server Operations	<ul style="list-style-type: none"> Experienced in Windows Server administration, including setup, patching, firewall rules, and service management Proficient in managing DNS, domain hosting, SSL certificates, and configuring web hosting environments (IIS) Setup and maintain Load Balancers, failover configurations, and basic network routing for high availability
	Environment Setup & Deployment	<ul style="list-style-type: none"> Skilled in setting up local, staging, UAT, and production environments for .NET and Node/JS applications Experience with installing and configuring runtimes, databases, IIS, monitoring tools, and deployment agents Familiar with containerized environments (Docker basics) and provisioning on VMs or App Services
	Payment System Integration	<ul style="list-style-type: none"> Experience working with payment gateways, including setup, API integration, transaction testing, and security validation Knowledge of callback/notification handling, error scenarios, and ensuring secure payment flows (TLS/HTTPS, IP whitelisting, etc.)
	Frontend & JS Framework Support	<ul style="list-style-type: none"> Able to work with modern JavaScript frameworks (Vue.js, React.js – basic to intermediate level) for UI customization or integration Collaborate with frontend teams to integrate APIs, support component-based design, and debug UI-related issues Familiar with build tools like Webpack, npm, and version compatibility in JS environments

Languages	
<ul style="list-style-type: none"> English 	Technical reading & writing proficiency, limited verbal communication

	<i>(Capable of understanding documentation, emails, and participating in technical discussions with support tools. Currently improving through daily practice and project-based communication)</i>
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Education

- The University of Da Nang – University of Economics – Management Information Systems – Bachelor's Degree
- NIIT – Professional Diploma in Information Technology – Professional Diploma

Professional Experiences

Enterprise Project	
Duration	01/2019 – Current
Team Size	50+
Taken Role	Senior Software Engineer / Cloud & DevOps Specialist
Project Description	<p>Software Development</p> <ul style="list-style-type: none"> • Participated in the development and maintenance of core business applications using .NET Framework, .NET Core, and SQL Server • Designed and implemented APIs, Web Services, and backend components for large-scale systems <p>Cloud Engineering & DevOps</p> <ul style="list-style-type: none"> • Operated, configured, and deployed systems on Azure Cloud and Virtual Machines • Set up and maintained CI/CD pipelines using Azure DevOps to enable fast, secure, and automated deployments • Implemented monitoring, logging, and scaling solutions in the cloud environment <p>Migration & Infrastructure Projects</p> <ul style="list-style-type: none"> • Led migration of infrastructure from Azure Cloud to on-premises, ensuring data security and cost optimization • Supported customers in integrating new systems and migrating from other platforms into the existing infrastructure <p>System Architecture & Solution Design</p> <ul style="list-style-type: none"> • Involved in designing system architectures for new applications, ensuring scalability, security, and high performance • Provided technical consulting and proposed appropriate solutions aligned with client needs and long-term strategy <p>Customer & Internal Support</p> <ul style="list-style-type: none"> • Worked directly with customers to gather requirements, resolve issues, and implement customized solutions • Provided technical support and mentoring to team members on .NET, DevOps, and operational processes <p>Problem Solving & Solution Implementation</p> <ul style="list-style-type: none"> • Proactively proposed and implemented operational optimization solutions, reducing system errors and improving performance • Took initiative in identifying and integrating new customer services into the existing technology ecosystem
My responsibility	<ul style="list-style-type: none"> • Designed and developed scalable system architectures for new application modules and services • Developed and maintained backend APIs using .NET and SQL Server

	<ul style="list-style-type: none"> • Migrated infrastructure from Azure Cloud to on-premises environments • Designed and implemented CI/CD pipelines using Azure DevOps, enabling faster and more reliable deployments • Monitored and supported production systems, handled incidents, and performed performance optimization • Collaborated in architectural decisions to ensure high availability, security, and extensibility • Assisted team members in resolving technical issues and provided technical mentoring when needed • Worked closely with customers to gather feedback and continuously improve solutions • Integrated third-party services into existing systems based on customer-specific requirements
Project Technology	.NET Framework, .NET Core, Azure, Azure DevOps, SQL Server, Virtual Machines, Windows Server, Git, Jira

Enterprise Project	
Duration	09/2024 - 04/2025
Team Size	80+
Taken Role	Cloud Solution Support / Migration Engineer
Project Description	A strategic cloud migration project aimed at transitioning a large-scale enterprise system from AWS Cloud services to Azure Cloud. The scope includes analysis of existing architecture, proposing equivalent Azure solutions, and implementing end-to-end migration plans while ensuring service continuity, security, and cost efficiency.
My responsibility	<ul style="list-style-type: none"> • Participated in architectural reviews of existing AWS-based infrastructure. • Proposed equivalent Azure services and migration paths based on system requirements and constraints • Implemented migration plans, including computers, database, and network components. • Supported data transfer, service validation, and post-migration stabilization. • Collaborated with development, DevOps, and security teams to ensure seamless integration and compliance
Project Technology	AWS (EC2, RDS, S3, IAM...), Azure (VMs, Azure SQL, Blob Storage, RBAC...) Azure DevOps, PowerShell, ARM templates, Azure Monitor .Net technology, terraform, bitbucket, Azure DevOps...

E-commerce Platform (Global Scope)	
Duration	01/2012- 12/2016
Team Size	40+ (global development & operations team)
Taken Role	Full-stack Developer

Project Description	A global e-commerce platform serving users in over 100 countries with more than 100,000 end users. The system supports cross-border online shopping, multi-language UI, and integrated payment processing.
My responsibility	<ul style="list-style-type: none"> • Developed and maintained core features for web and mobile platforms using ASP.NET and SQL Server. • Monitored system performance and uptime, performed troubleshooting and optimization. • Integrated various payment gateways and merchant APIs to enable international transactions. • Collaborated with front-end teams and business analysts to ensure seamless user experience. • Ensured data integrity and compliance with regional security/payment regulations.
Project Technology	ASP.Net WebForm, VueJS, React, flutter, SQL Server

Softech Aptech	
Duration	04/2014 - 05/2016
Taken Role	Programming Instructor/Trainer – .NET Platform
Project Description	Served as a lecturer and technical mentor for students enrolled in professional software development programs. Specialized in delivering core and advanced modules in Microsoft .NET technologies.
My responsibility	<ul style="list-style-type: none"> • Delivered structured training courses in C#, Windows Forms, and ASP.NET. • Provided hands-on instruction in Azure Cloud fundamentals and application deployment. • Supported students with practical exercises, project development, and code review. • Designed course materials, assignments, and assessments tailored to real-world development. • Mentored students on software engineering practices, debugging, and career orientation
Project Technology	C# Fundamentals

Personal Projects & Technology Research	
Duration	Ongoing
Purpose	Continuously building and experimenting with personal projects to explore new technologies and frameworks. These initiatives support ongoing learning and prepare for real-world customer requirements in current and future projects.
Activities	<ul style="list-style-type: none"> • Researching and prototyping with modern tech stacks. • Testing integration scenarios with cloud services, APIs, and DevOps pipelines. • Exploring new design patterns, microservices, and containerization (Docker).

	<ul style="list-style-type: none"> • Applying findings to improve code quality, scalability, and solution design in real projects. • Documenting technical findings and building reusable code templates for team adoption.
Project Technology	.NET, ASP.NET Core, Blazor, Azure Functions, GitHub Actions, Docker, MongoDB, REST APIs, AI and trending technologies.