

THE NGUYEN KHAC

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With 7 years of experience in developing B2B solutions, I specialize in database design, optimization, and CI/CD implementation. Proficient in Java, Spring, C#, ASP.NET, and SQL, I excel in managing complex projects and delivering high-quality results in collaborative environments.

SKILLS

Backend Language: C#, Java, Python

Framework: ASP.NET Core, Entity Framework, .NET Framework, Spring Boot, Hibernate

Database: SQL Server, MySQL, Oracle, AWS RDS, Firebase Realtime DB

Testing & Refactoring: SonarQube, JUnit, NUnit, Mockito

Cloud & DevOps: AWS, Gitlab CI, Azure DevOps, Docker

OS: Windows Server, Linux (RedHat, Ubuntu, CentOS)

WORK EXPERIENCE

.NET Engineer | Sun* Inc.

Apr 2025 - Oct 2025

- Designed and implemented an Admin Dashboard to streamline user and system management.
- Developed RESTful APIs using .NET 8.0 for seamless integration across internal and third-party services.
- Conducted unit tests using NUnit and actively supported refactoring efforts to enhance performance and code readability.
- Redesigned system architecture to optimize the atomic endpoint API.
- Designed automation workflows to securely integrate PHI data between the system and third-party services using QVera.
- Designed and implemented a security solution to scan for vulnerable open ports on servers using Python.

Key Projects

- Swift Medical:** An AI-powered digital wound care management platform built with Flutter, .NET 8.0, Python, QVera, and Azure FHIR for development, with deployment and CI/CD handled via Azure DevOps.

Technical Leader | CMC Global

Nov 2021 - Mar 2025

- Developed scripts for automated data quality checks based on defined metrics.
- Developed, tested, and integrated updates into production environments seamlessly.
- Monitored security vulnerabilities, conducted intrusion detection, and analyzed access logs to prevent all issues and incidents.
- Optimized the *Retail Audit* project database to improve query performance **up to 60x** and reduce disk usage by **up to 98%**.
- Led the modernization of the *Global Email Marketing System (GEMS)* project from Java 6 and JEUS 6 on Windows Server to Java 8 and JBoss 7.4 on Linux.
- Trained and managed a team of **5 members**, leading to successful project operations and a **96% customer satisfaction score**.

Key Projects

- GEMS:** A high-performance email marketing system capable of sending **10 million emails daily**, developed using Java, Struts, and SQL Server.
- Retail Audit System:** A global sales data analysis and reporting platform built with .Net SharePoint, SQL Server SSIS, and SSAS.

Back-End Developer, RnD Staff HanbiSoft Co. Ltd	Mar 2021 – Oct 2021
<ul style="list-style-type: none">• Developed SharedPOS – a secure, bank-integrated payment gateway.• Enhanced team efficiency by 35% through improved coordination and project tracking, ensuring timely delivery of fintech solutions.	
Key Projects	
<ul style="list-style-type: none">• SharedPOS System: A secure payment gateway developed with Java and JPos8583, using JUnit for automated testing.• WebRTC Android Video Call: An Android video call application using Kotlin and Firebase RDB.	
RnD Staff & Coach CodeGym Vietnam JSC	Mar 2020 - Feb 2021
<ul style="list-style-type: none">• Coached over 100 individuals in Java, Spring Boot, and SQL.• Designed and developed an OKR management tool to improve goal setting and performance tracking.	
Back-End Developer HanbiSoft Co. Ltd	Jul 2018 - Feb 2020
<ul style="list-style-type: none">• Designed and implemented <i>HanbiSoft IOM</i>, an internal accounting system for managing financial transactions and reporting.• Led a team of 4 to deliver the <i>ACE ERP</i> solution, which included a Warehouse Management System (WMS) and Supply Chain Management (SCM), integrating financial data for seamless logistics and cost management.• Created a robust data pipeline for financial transaction processing, improving data integrity and system performance.	
Key Projects	
<ul style="list-style-type: none">• ACE ERP: An enterprise solution managing logistics processes and storage conditions using a low-code platform and Oracle DB 11c.• HanbiSoft IOM: An internal accounting application managing income, expenses, and financial reporting, built with .NET Framework 4.5, DevExpress 15 and MySQL.• Co-up WMS: A Windows-form enterprise solution managing storage conditions and delivery processes, built with .NET Framework 4.5, Dev Express 16, and SQL Server.	

PROJECTS

<u>MPOS CI/CD Pipeline</u>	Nov 2023 - Dec 2023
Implemented a CI/CD pipeline using GitLab CI for a WMS sample, built with .NET Core 6 and MySQL.	
<u>AI Girlfriend</u>	Dec 2024 - present
Developed an AI-powered virtual assistant using Python and Gemma AI 2-9B model, capable of providing coding assistance in both Vietnamese and English. The project is currently running in a CLI environment, with plans to expand it into an API for broader applications.	
<u>My CMS</u>	Dec 2024 - Feb 2025
Created a content management system using Spring Boot, designed for personal blogging and sharing insights on various technologies.	

EDUCATION AND CERTIFICATIONS

AWS Certified Solutions Architect Associate (SAA - C03)	2025
Java-Backend Developer Certification	
CodeGym Vietnam	2018
Bachelor's degree in Nuclear Engineering and Environment Physics	
Hanoi University of Science and Technology	2012 - 2016