

# 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

- 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**

- **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

- 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

- Designed and implemented *HanbiSoft IOM*, an internal accounting system for managing financial transactions and reporting.
- Led a team of 4 to deliver the *ACE ERP* 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**

- **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**

### **MPOS CI/CD Pipeline**

Nov 2023 - Dec 2023

Implemented a CI/CD pipeline using GitLab CI for a WMS sample, built with .NET Core 6 and MySQL.

### **AI Girlfriend**

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.

### **My CMS**

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