

# Viet Hai Nguyen

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## PROFILE

Versatile software engineer with practical experience in building robust, user-friendly applications. Strong background in C# and .NET, with a focus on clean code, automation, and real-world problem solving. Quick to learn, proactive in teams, and committed to delivering reliable solutions that scale.

## EXPERIENCE

**Morphotonics B.V.** Jan 2022 – Present  
*Software Engineer* Veldhoven, NL

- Developed an OPC UA-based system for hardware communication and control.
- Created simulation tools to enable testing without physical hardware.
- Designed diagnostic dashboards with Blazor-ApexCharts to analyze hardware module performance after production cycles.
- Built an intuitive recipe editor to simplify machine setup for operators.
- Implemented a secure internal tool for remote deployments, reducing manual workload.
- Configured and maintained Ubuntu servers for production systems.
- Automated testing and deployment using Azure DevOps CI/CD pipelines.
- Collaborated with engineers and stakeholders to define features and support system rollout.
- **Technologies:** C#, .NET 8, Blazor, OPC UA, MongoDB, MudBlazor, CI/CD, Ubuntu

**Smit Thermal Solutions B.V.** Jul 2021 – Dec 2021  
*Junior Software Engineer* Eindhoven, NL

- Gathered system requirements and created UML diagrams to generate PLC code using Cordis Suite.
- Wrote and tested structured text code for B&R PLC systems.
- Supported testing and commissioning by fixing bugs and adjusting control logic.
- **Technologies:** UML, Cordis Suite, Beckhoff PLC, B&R PLC

**8vance** Sep 2020 – Feb 2021  
*Graduation Intern* Venlo, NL

- Built a web interface to demonstrate a deep learning model that detects emotions in facial expressions.
- **Technologies:** Python, Django, OpenCV, Angular

## EDUCATION

**Fontys University of Applied Sciences** Feb 2017 – Feb 2021  
*Bachelor of ICT & Software Engineering* The Netherlands

## SKILLS

**Programming Languages:** C#, Java, Python

**Frameworks:** .NET 8, Blazor, MudBlazor

**Tools:** Git, Azure DevOps, Azure Pipelines

**Environments:** Ubuntu Server

**Databases:** MongoDB, SQL Server, MySQL, SQLite

**Core Skills:** Teamwork, Communication, Problem Solving, Adaptability

## ADDITIONAL INFORMATION

**Languages:** English (Fluent), Dutch (A2), Vietnamese (Native)

**Work Authorization:** Long-term EU residence permit