

# HOANG NHAT DUY LE

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## EDUCATION

### The University of Toledo, College of Engineering

Bachelor of Science in Computer Science and Engineering, Data Science Minor, Cumulative GPA: 3.90

Relevant Coursework: Database-Driven Websites Design, Computer Architecture & Organization, Senior Design, Engineering Statistics, Digital Logic, Data Science, Embedded Systems, Inside Cryptography, Operating Systems Programming, Software Engineering

## PROFESSIONAL EXPERIENCE

### Software Engineer – MES I | First Solar

February 2025 - Present

**Working with stakeholders to build and enhance software systems for manufacturing, reliability, and R&D processes.**

- Integrates shop floor systems with custom-developed and off-the-shelf solutions.
- Assists administrators (server admins, network admins, DB admins) in troubleshooting enterprise-level problems.
- Designs, codes, tests, correct, and documents simple programs, and assist in the implementation of software.
- Applies tools and methods to identify the user experience, characteristics and tasks, and the technical, organizational and physical environment in which the product or system will operate.

### MES Software Engineer | Nysus Solutions

January 2022 – February 2025

**Collaborate with 20+ members (PMs & Developers) to build and enhance custom web-based manufacturing software.**

- Developed and integrated MES software with ERP systems (e.g., SAP, Oracle) and production equipment (e.g., PLCs, HMIs) to automate processes and improve information flow.  
⇒ Customers: DMS, IAC, TEAMs System, DNUS, Dana Toledo & Auburn Hills (virtual MES Stations), Yanfeng
- Supported transition management by migrating legacy systems and data to new MES platforms with minimal production disruption.
- Provided technical support and troubleshooted MES software issues to identify root causes and reduce downtime for more than 20 customers.
- Coordinated onsite implementation of MES software solutions, resolved 30+ technical issues and adapted solutions to customer engineering needs.
- Maintained and improved existing applications using MS SQL Server Management Studio.

### DevOps Developer Internship | Equity Trust Company

May 2021 – September 2021

**Collaborated in a team of 5 to unit test and optimize the current Account Open process for Equity Trust Company**

- Maintained and modified existing APIs while maintaining documentation and testing standards.
- Performed unit testing on 5+ main functions in the company core process to verify customers' operations.
- Deployed 2 features to production after performing necessary modifications and unit testing.
- Contributed to the process of remodeling and increasing security level of the Customer Account Open Process by changing it from Service Bus Queue to Topics & Subscriptions from Azure Architecture.

### Software Developer Co-op | Plastic Technologies Inc

January 2020 – May 2020

**Cooperated with 4 members of the Simulation Department to develop algorithms and update internal custom website**

- Updated and maintained customer website using .NET Framework, JavaScript, HTML, and MSSQL to improve day-to-day operations within the company, and innovation for future business.
- Developed mathematical methods and algorithms to draw graphs and calculate volume of plastic bottles and preforms.
- Assisted senior engineers with lab measurements and generated reports on simulation results of the product.

## TECHNICAL SKILLS & CERTIFICATIONS

**Programming Languages:** Java, C#, C++, Assembly Language (80x86 & ARM)

**Web Development:** HTML5/CSS, JavaScript (Vanilla, jQuery), TypeScript, Angular, PHP, MySQL/MSSQL, ASP.NET Core

**Others:** Project Management, GIT, package manager (composer, NodeJS, nugget), docker, Unit Testing, Machine Learning

**Data Science:** Microsoft Excel, SPSS, SAS, Python, R

## PROJECTS

### myHome Website | Full Stack Developer

December 2022 – Present

**Personal Property Management App – URL:** [myhome.fly.dev](https://myhome.fly.dev) (v1) & [myhome-drexel-fd81a3df4ed5.herokuapp.com](https://myhome-drexel-fd81a3df4ed5.herokuapp.com) (v2)

- Building RESTful APIs (using ASP.NET Framework) that serve data to the Angular/TypeScript front-end to visualize information of tenants and help to administrate personal property.
- Collaborating with 6+ tenants to identify practical issues and improve the efficiency of the website services.