

# HOANG NHAT DUY LE

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## EDUCATION

### The University of Toledo, College of Engineering

Graduation Date: May 2023

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

Minor: Data Science

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

## TECHNICAL SKILLS & CERTIFICATIONS

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

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

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

**Others:** Project Management, APIs, Git, MES, PLC Programming, Unit Testing, Machine Learning

## PROFESSIONAL EXPERIENCE

### MES Software Engineer | Nysus Solutions

January 2022 – Present

Coordinated with 20+ members (PMs & Developers) to create and improve custom web-based manufacturing software

- Developing and integrating MES software with ERP systems (e.g., SAP, Oracle) and floor equipment (e.g., PLCs, HMIs) to meet specific manufacturing requirements and enable automated production and streamline information flow.
- Supporting transitioning management processes, assisting with the migration of legacy systems and data to the new MES platform while minimizing disruptions to production operations.
- Providing technical support and troubleshooting for MES software issues, collaborating with vendors and internal teams to identify root causes and reduce downtime for more than 20 customers.
- Coordinating onsite implementation of MES software solutions, working closely with the customer's engineering and production teams to understand their specific requirements and resolve over 30 number of technical issues onsite.

### 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.
- Successfully 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, C#, JavaScript, HTML, and SQL database 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.

## PROJECTS

### myHome Website | Full Stack Developer

December 2022 – Present

Personal Property Management Website – Url: myhome.fly.dev

- Building RESTful APIs that serve data to the Angular/TypeScript front-end to visualize information of tenants and help to administrate personal property.
- Analyzing 40+ user requirements to derive technical software design and performance requirements.
- Collaborating with 6+ tenants to identify practical issues and improve the efficiency of the website services.

### Bone Conduction Railing System | Software Developer

August 2022 – May 2023

Working with 4 CSE students to construct a Bone Conduction Railing System for the UToledo Sesquicentennial Event

- Developed Arduino Software Program to play MP3 files from SD Card and output the sound to the speaker/amplifier.
- Conducted Unit Test and Conductivity Test to ensure sound quality and expected vibrations through railing system.
- Finalized the construction of the product to serve 20,000+ students to study about UToledo history.