**HOANG NHAT DUY LE**

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**EDUCATION**

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| **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**

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| **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. | |

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| **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. | |

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| **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. | |

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| **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**

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| **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**

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| **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. | |