

THANH NAM TRAN

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SKILLS

OOP, Python, C++, C#, .NET, Microsoft SQL, MongoDB, Rest API, AWS, Kubernetes, Docker, Postman, Selenium, HTML5, CSS, Bootstrap, Semantic UI, JavaScript, JQuery, NodeJS, Express, React, Django, Odoo, Heroku, Agile development, Pandas, Tableau, Power BI, Git, Automated Tests

EXPERIENCE

Software Developer at Media Cybernetics, Inc Rockville, MD 02/2022– Present

- Created and customized Media Cybernetics ERP systems using Odoo, performing full-stack development including front-end (Qweb, HTML, CSS, JavaScript) and back-end (Python, PostgreSQL).
- Managed DevOps tasks such as setting up CI/CD pipelines, automating deployments, and monitoring system performance using Kubernetes.
- Integrated third-party services and APIs to enhance ERP functionality,
- Developed custom modules and features within Odoo to meet specific business requirements, ensuring seamless user experiences and robust data handling.
- Conducted code reviews and maintained coding standards to ensure high-quality, maintainable code.
- Collaborated with the team to develop UX/UI guidelines, including creating a comprehensive style guide to ensure consistency across all user interfaces.
- Design and implement a company metrics data visualization dashboard using RestAPIs, Microsoft SQL, PowerBI, batch files to collect data from multiple agile frameworks improving efficiency and automating business processes.

Engineering Intern at Media Cybernetics, Inc Rockville, MD 05/2021– 12/2021

- Maintain and update legacy code to ensure compatibility between multiple legacy Capture Interface versions.
- Develop and improve Capture Interfaces features using C++, software SDK, and microscope cameras API.
- Design specialized Zephyr Squad test cycles to help deliver quality testing
- Perform quality assurance testing on capture module in Image Pro, capture interfaces, and capture devices (microscope cameras).
- Apply the principles of Agile project management to control the project workflow.

PROJECTS

Share your song website – [Live](#) / [GitHub](#)

A fully functional music blogs made specifically to share music and connect people.

NodeJS, ReactJS, Semantic UI, MongoDB

- Combine efficient use of Semantic UI framework and customized CSS - JavaScript to create a minimalistic, clean, responsive, and user-friendly to all devices.
- The web-app is perfectly structured using NodeJS (Express) for enhance performance allowing handle multiple requests and asynchronous and event-driven.
- All the data are oriented using MongoDB for flexibility and full cloud-based host. The web-app is deployed via Heroku.

Examining the Usage of the UMBC High Performance Computing Facility - [Live](#) / [Paper](#)

A compelling visualizations that provide insight into the usage patterns of the HPCF,

- This assists the faculty in allocating resources towards the facility and determining future policies on this shared UMBC community resource.
- The visualization also helps evaluates the COVID-19 lockdown impact on the UMBC users' usage habits.

EDUCATION

University of Maryland, Baltimore County (UMBC) 08/2019– 12/2021

B.S. Computer Science - Track Data Science

Montgomery College 08/2016– 05/2019

A.A Computer Science

CERTIFICATES

Microsoft Power BI Bootcamp - Simpliv Learning (2022)

- Mastered the fundamentals of Power BI, including data import, transformation, and visualization.
- Developed advanced skills in creating interactive dashboards and reports.
- Learned best practices for data modeling and DAX (Data Analysis Expressions) to enhance data analysis capabilities.

The Complete 2024 Web Development Bootcamp – Udemy (2021)

- Gained comprehensive knowledge in web development technologies, including HTML5, CSS3, JavaScript, and Node.js.
- Built and deployed multiple full-stack web applications using frameworks such as React and Express.
- Enhanced understanding of front-end and back-end development, as well as database management with MongoDB.

Next.js 14 & React - The Complete Guide– Udemy (2021)

- Acquired in-depth knowledge of Next.js and its capabilities for server-side rendering and static site generation.
- Developed proficiency in building scalable and high-performance React applications.
- Learned advanced techniques for optimizing web applications and improving SEO.

Statistics for Data Science and Business Analysis – Udemy (2021)

- Mastered key statistical concepts for data science and business analysis.
- Applied statistical methods to real-world datasets for actionable insights.

100 Days of Code: The Complete Python Pro Bootcamp – Udemy (2020)

- Completed a comprehensive Python programming course covering basic to advanced topics.
- Developed practical skills by working on 100 coding projects, ranging from simple scripts to complex applications.
- Gained proficiency in Python libraries such as Pandas, NumPy, and Flask, as well as web development and automation.