THANH NAM TRAN

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SKILLS

OOP, Python, C++, C, MySQL, NoSQL (MongoDB), HTML5, CSS, Bootstrap, JavaScript, NodeJS, Express, Django, ReactJS, Heroku, Agile development, Pandas, Plotly, Tableau, Gapminder, Power BI, Folium, Matplotlib, Git, GitHub, Bitbucket

EXPERIENCE

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

- Develop and improve Capture Interfaces features using C++, software SDK, and microscope cameras API.
- Maintain and update legacy code to ensure compatibility between multiple legacy Capture Interface versions.
- This helps the imaging application communicate efficiently and quickly with the microscopy camera's driver overall improve image analysis quality.

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

- 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.

PERSONAL PROJECTS

The Music Confabulation – Live / GitHub

A fully functional clone of Instagram made specifically to share music and connect people

- Unite efficient use of Bootstrap 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.

The Music Confabulation Data Visualization – Live / GitHub

An automatic daily update data visualization of the music blog mentioned above

- Written using Python, Pandas, NumPy, PyMongo, graphed using Plotly, Plotly-Dash, automatically updated by a (.bat) file and deployed via Heroku.

ACADEMIC PROJECTS

Pick-Up Games – Live / GitHub

A web app wherein individuals can casually find local pick-up games for their favorite sports.

- Python, Django, Bootstrap, Heroku, Selenium (testing), Folium (map visualization)

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 help 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