KHANH HOANG

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LINKEDIN: thoang43 | GITHUB: thoang43

EDUCATION

Dickinson College

Carlisle, PA, U.S.

Bachelor of Science in Computer Science

Expected May 2022

GPA: 4.00/4.00

Relevant Courses: Analysis of Algorithms, Programming Language Structures, Artificial Intelligence, Computer Network, Computability and Complexity, Data Structure and Algorithms, Computing Abstractions, Cyber and Information Security

Phi Theta Kappa scholarship: scholarship for transfer student with excellent academic standing

Montgomery College

Rockville, MD, U.S.

Associate of Arts in Computer Science

Spring 2018 - Spring 2020

GPA: 3.96/4.00, **Major GPA**: 4.00/4.00

- Dean's List: For all semesters
- Second Place at 2019 STEM Student Research Conference
- Member at **NASA Swarmathon Team**: Developing robots (swarmies) to work together searching and collecting cubes by using Robot Operating System, C++, Unix and Arduino for the hardware.

EXPERIENCES

RR Donnelley Thurmont, MD, U.S.

Information Technology Intern (Perl, Python, SVN, Docbridge, XML, CentOS)

June 2021 - Now

- Write Perl and Python scripts that convert input data to journal files that can be used in the printing process
- Perform quality assurance process by comparing multiple pdf files using Docbridge
- Debug and refactor scripts as part of maintenance process so that future developers can easily integrate into printing process

National Institute of Standards and Technology (NIST)

Gaithersburg, MD, U.S.

Guest Researcher (Python, Jupyter Notebook, Gitlab)

Jan 2020 – Aug 2020

- Analyzed and developed routines to process Molecular Dynamic (MD) data and stored data in created data structure for coarse-graining and visualizing processes using Python
- Built data structures to store molecular information and calculated missing information to fulfill input data
- Developed algorithms to group elements based on the given requirements so molecules can be better visualized

Ackerman Learning Center at Montgomery College

Rockville, MD, U.S.

Tutor (Java, Python, C++, C)

Feb 2019 – Dec 2019

• Tutored students in C++, Java, and Python, explaining basic concepts like data structures and object-oriented programming (OOP), as well as assisting them with homework.

ACTIVITIES & PROJECTS

APS March Meeting 2021, Contributing Author [link]

As part of my work as guest researcher at NIST, this is a library to automate the conversion of AA to CG representations and have designed an input-output framework which aims at providing reproducibility.

Personal Portfolio Website (CSS, HTML, JavaScript, Swiper) [link]

My personal portfolio website, built with CSS, HTML, JavaScript, and third-party tools and frameworks like Swiper.

Battleship Game (Java, JavaFX, TCP/IP protocols) [link]

A simulator of battleship game that let users play on GUI built by JavaFX and communicate with server using TCP/IP protocols.

Book Library (Java, JavaFX, Oracle Database) [link]

Worked with three partners to build software that managed materials for computer science courses at Montgomery College.

Certificate: Oracle Certified Foundation Associate in Java, Oracle

LANGUAGES & TECHNOLOGIES

Programming Language: Java, Python (proficient), Bash, JavaScript, C++, Perl, C (prior experience)

Framework/Tool: Docker, Git, GitHub, Django, SVN, Ubuntu, VirtualBox, Bootstrap