KHANH HOANG

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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
- **Second Place** at 2019 STEM Student Research Conference

EXPERIENCES

RR Donnelley   **Thurmont, MD, U.S.**
Information Technology Intern (Perl, Python, SVN, Docbridge, XML, CentOS)   June 2021 – Now
- Create Perl and Python scripts to convert input data to journal files based on requirements so that they can be used in 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   **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   **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