Mai Nguyen Dac

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EDUCATION

Allegheny College, *Meadville, PA*   **Expected Graduation: May 2023**
Bachelor of Science in Computer Science   **Department GPA: 4.0/4.0**
Double Minor: Chinese and Math   **Cumulative GPA: 3.97/4.00**
Distinguishments
Alden Distinguished Scholar *(second highest honor for academic achievement)*   **Fall 2019 - Fall 2021**
Outstanding Major Junior Prize *(Recognition for highest achievement Junior majoring in Computer Science)* **Spring 2021**
Relevant Coursework
Software Engineering, Cybersecurity, Artificial Intelligence, Data Analytics, Programming Languages, Microeconomics, Linear Algebra, Data Structures, Computer Organization

WORK EXPERIENCE

Research Assistant, Computer Science Department, *Allegheny College*   **June 2021 - September 2021**
- Applied Natural Language Processing techniques to enhance article searching experience
- Worked on text cleaning and ensured text quality, consistency, integrity using Pandas, NumPy
- Utilized K-means clustering algorithms to map words that coherently related together into clusters

Technical Leader, Computer Science Department, *Allegheny College*   **August 2020 - Present**
- Assisted professors in building student's competencies in implementing the theory of coding into applied programming through labs
- Instructed 40 students per class across a spectrum of topics including coding, analyzing, and developing problem solving skills.
- Graded/analyzed papers and labs and consulted students with constructive feedback

Research Assistant - Software Developer Assistant, *Allegheny College*   **May 2022 - Present**
- Collaborated with Professor to gamify the curriculum of fundamental Computer Science course at Allegheny College
- Monitored and constructed docker containers operated on VScode that can handle the traffic of 40 students working synchronously using JavaScript and NodeJs
- Developed Clive - a Discord chat bot working as a class assistant
- Implemented error logging program using Winston package in NodeJS to increase error tracking efficiency
- Designed coding assignments and documentation for Computer Science 100 class

Data and Technology Intern, Residence Life, *Allegheny College*   **August 2022 - Present**
- Traced and monitored discrepancies in Allegheny College's housing directory of 1300 students using Excel and a third-party database system
- Automated the report system and ensure data integrity prior to sending it to fellow Resident Advisor and administration
- Communicated effectively with parents, students and administrations to resolve residential life related issues

PROJECTS

Lipstick Virtual Try-on, Link   **Fall 2021**
- Using openCV and NumPy to design a lipstick virtual try-on tool that can return natural lipstick color on any skin tone by improving blending algorithm

PovertyvIQ, **Link**   **Spring 2021**
- Analyze and demonstrate the correlation between poverty and IQ by database across 100 different countries using R

PytestPlugin, Link   **Spring 2021**
- Using Python to design pytest plugin which creating test's markdown report and send the test report to user's email

SKILLS

Programming Language: Java , R , Python, JavaScript, C
Framework: Tensorflow, openCV, NLTK, Spacy, NodeJs, SQL, Scrum methodology, Agile
Language: Chinese *(Intermediate)*, English (Advance), Vietnamese *(Native)*
Leadership and Additional experience: Resident Advisor (Fall 2020 - Spring 2022), Talent Acquisition Intern (Summer 2020)