

Mai Nguyen Dac

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EDUCATION

Allegheny College, Meadville, PA

Bachelor of Science in Computer Science

Double Minor: Chinese and Math

Expected Graduation: May 2023

Department GPA: 4.0/4.0

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

COMPUTER PROGRAMMING 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
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HUMAN RELATIONS EXPERIENCE

Resident Advisor, Residence Life, *Allegheny College*

September 2020 - May 2022

- Helped 60 residents with their personal, academic, and social engagement within their living and learning environments
- Performed several administrative duties such as requesting maintenance, finishing annual reports/announcements, reporting college violations, etc.

Talent Acquisition Service Intern, H.R. Department, *Techcombank Head-quarter*

May 2020 - August 2020

- Assist headhunt and Talent Acquisition unit in organizing Recruiting Day, with more than 1000 applicants
- Directed successful candidates' with onboarding procedure, maintaining confidentiality
- Processed and finalized paperworks for high-ranked foreigner experts in the age of CoronaVirus, working closely with Immigration Department, Department of Health and Consular Department

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
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PROJECTS

Lipstick Virtual Try-on, <https://github.com/Mai1902/MachineLearning-VirtualTryon>

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, <https://github.com/Mai1902/DataAnalytic-Povertyv.IQ>

Spring 2021

- Analyze and demonstrate the correlation between poverty and IQ by database across 100 different countries using R
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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*)