Anh D Nguyen

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EDUCATION

Gettysburg College, PA | Bachelor of Science in Physics   Expected May. 2022
- GPA: 3.90/4.0 | Department GPA: 4.0/4.0
- Dean's Lists since for 4 consecutive semesters since Fall 2019.
- Activities: *Media Executive*, Vietnamese Students Association, *Guitarist,* Gettysburg Jazz Dispatch.
- Courses: Electricity and Magnetism| Intro to Thermodynamics and Stat Physics| Quantum Mechanics| Electronics| Differential Equations| Linear Algebra| Calculus| MATLAB|

PERSONAL PROJECTS

Issue Tracker *(MongoDB, Express, React, Socket.io)* |Full-stack developer
https://mernissuetracker.herokuapp.com/   June- Jul 2021
- Created an app that keep track of personal and team projects using the MERN stack. Users can create projects and add any other users as admin / participant and assign them to any issues.
- Built an Express backend which dealt with authentication and communication (CRUD) with users' projects stored in MongoDB, and a clean and responsive UI using React and Bootstrap.
- Implemented Socket.io to have real-time updates (such as being added into project) across users.

Covid Tracker *(React)* | Front-end developer
https://dyannd.github.io/covidtracker/   June 2021
- Created an app that provides real-time pandemic information of every country.
- Used React Axios to fetch data from public covid API and update the user's UI.

Laws of Motion *(HTML, CSS, jQuery)* | Front-end developer
https://dyannd.github.io/LawsOfMotion/index.html   May - June 2021
- Created an app that provides basic information about Newton's 3 laws of motion in an interactive manner, which aimed to gain viewers' interests in Physics.
- Used intensive jQuery and CSS to create appealing and interactive animations.

WORK EXPERIENCE

Physics Grader   Aug – Dec 2020
Gettysburg College| Gettysburg, PA

- Being a homework grading assistant for ***introduction to Electricity and Magnetism*** course – a required course for any Physics major pursuers.
- Together with the instructor came up with a rubric that is more effort-based than perfect-based, which urged students to do homework more effectively. Class average is around 85%.

Internship, CURE Undergraduate Experience   June - July 2020
Hampton University | Hampton, VA | Remote

- Independently conducting a research on atmospheric science, specifically studying the gravity waves' behaviors from Polar Mesospheric Clouds using data from NASA's AIM - CIPS Satellite.
- Applying Fast Fourier Transform to analyze different scales of quasi-periodic behavior of waves. Perform data analysis to derive the results.
- Results found was the unchanging behaviors of gravity waves between consecutives CIPS orbits if large-scales variabilities were considered. Reported using LATEX. and programmed using IDL.

Math Peer Learning Associate   Jan 2020 – March 2020
Gettysburg College | Gettysburg, PA

- Hold one class session a week to help students solving problem from ***Calculus II***.
- Discuss with the instructors weekly to figure out the optimal and simple solutions for students.

LEGO Mindstorms Coach   June – Aug 2019
HCMC University of Science | Ho Chi Minh City, Vietnam

- Coached students of to use LEGO Mindstorms as a presentation of their project ideas (to be used in LEGO Robotacon national contest).
- Helped my team to achieve bronze medal (3rd prize) in Open Category with the S-Mart (smart supermarket) project.

ACHIEVEMENTS

Third Prize, Vietnam Intel Student Engineering Fair (ViSEF)   Sep 2017 – Mar 2018
Vietnam

- Worked collaboratively on the project: Sixth Finger for Parkinson's Disease patients. Designed using Arduino UNO to read inputs from flex sensor to determine the tremor frequency of the patient.
- VISEF is a national scale version of Intel ISEF (Intel International Science and Engineering Fair), the world's largest international pre-college science competition. VISEF 2018 involves 200 teams of senior high-school group. Winners are chosen to participate in Intel ISEF.

SKILLS

Soft skills: Communication | Teamwork | Problem-solving |Adapting | Critical thinking | Time management | Organization|
Hard skills: HTML | CSS | JavaScript | React |Express | MongoDB | LATEX | MATLAB | IDL | Python 3 | Mindstorms