AJAY CLARK-DESAI

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EDUCATION

Carnegie Mellon University <div style="float:right">Pittsburgh, PA</div>

Bachelor of Science in Engineering (Electrical & Computer Engineering) <div style="float:right">May 2028</div>

- Cumulative GPA: 3.77 / 4.0; Dean's List (Fall 2024)

WORK EXPERIENCE

Varea Energy <div style="float:right">Remote</div>

Developer/ Assistant <div style="float:right">May 2024 - August 2024</div>

- Built a data tree to manage hundreds of data points detailing hydrogen deposits around the globe, making for easier accessibility
- Designed an interface that would share relevant information of hundreds of hydrogen deposits across the world with clients

Amwins Brokerage <div style="float:right">Houston, TX</div>

Assistant/ Shadow of Team Manager <div style="float:right">May 2023 - July 2023</div>

- Researched potential risks and analyzed respective costs for over 10 energy plant and pipeline plans within TX
- Designed MUD Maps and data tables for 3 different client companies to visualize costs third party companies would be willing to insure, and respective premiums

RELEVANT COURSEWORK

Differential Equations | Quantum Physics and Structure of Matter | Introduction to Electrical and Computer Engineering | Concepts of Mathematics | Linear Algebra and Vector Calculus for Engineers

PROJECT EXPERIENCE

Brain Scanning Video Game Controller <div style="float:right">Sept 2023 - May 2024</div>

- Developed code able to interpret signals from a Muse Brain Scanner, allowing for a user to play a simple video game (Flappy Bird or Tower Stack) via blinking
- Project coded with Python and the repository was uploaded to GitHub

ACTIVITIES & LEADERSHIP

CIA Buggy <div style="float:right">Pittsburgh, PA</div>

Mechanic, Builder, Data Analyzer <div style="float:right">Aug 2024 - Present</div>

- Part of a team that races single-manned, non-motorized go-carts (buggies) against other competing teams
- Help maintain Racing Buggies, and ensure safety requirements are met so that drivers are secure within the buggies during races and are not at risk of injury
- Assisting with the construction of a new buggy to add to the fleet of buggies in our roster
- Collaborated with other team members to make a computer program that takes GPS data to animate the buggy moving around the course

Boy Scouts of America <div style="float:right">Houston, TX</div>

Eagle Scout, Senior Patrol Leader <div style="float:right">Aug 2021 - Dec 2021</div>

- Led a Boy Scout Troop of over 100 boys, consulted with other boys of the troop to plan the campouts and activities for weekly meetings in the Fall Semester of 2021
- Organized 20 people to construct and install 8 of both duck and bat boxes for a preserve within Galveston Bay, TX for Eagle Project

SKILLS

Coding Languages: Java, Python, C#, C, C++, HTML + CSS + JavaScript, Rust, MATLAB
Tools: MS Office, MS Excel, MS Word, GitHub, Map Box, Mathematica, VS Code, Jet Brains, Linux
Spoken Languages: English (Native), Elementary Chinese
Other Skills: Problem Solving, Mathematics, Physics, Programming (OOP), Research