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EDUCATION

Recinto de Mayaguez UPR, Mayaguez, PR   Expected: May 2026
Major: Computer Science and Engineering
Relevant Coursework: Fundamentals of Computing, Advanced Programming, Data Structure, Design of Algorithm.
Cupeyville School, San Juan, PR
GPA: 3.89 (US), 3.95 (PR), Honors
Relevant Coursework: Computer class, AP Calculus, AP Physics, Codeacademy Java course

WORK EXPERIENCE

Google STEP Internship | Software Engineering   May 21 – August 11, 2023
- In my role within the department, my primary responsibility is to enhance the functionality of two essential debugging tools used extensively by teams within and outside of the Google Nest department.
- As part of my work-term duties, I have been assigned the task of improving these tools by introducing various features that will greatly enhance the user experience. The tools utilized were Django Framework, JavaScript, HTML, and CSS.

TECHNICAL PROJECTS

Bloom Filter, Algorithm Design   2023
- A Bloom Filter is a compact data structure used for quick and approximate membership queries. It hashes elements to a bit array, initially set to 0. By applying multiple hash functions, elements are added to the filter at various positions. When checking for membership, the same hashes are used, and if corresponding bits are set to 1, the element is likely part of the set (with a slight chance of false positives).

Contact Directory, Data Structure   2022
- The goal of this project was to create a contact directory using data structure and implementing efficient algorithms, where the contact directory can offer a fast access, seamless management, and a pleasant user experience for efficiently storing and retrieving contact information.

Pacman, Advanced Programming   2021
- Implemented a C++ Pacman game, where we are given a skeleton of the game and we had to implement different objective, for example, making a class where it gives us the shortest path towards a powerup.

Audio Visualizer, Advanced Programming   2021
- Implemented a class which measured the wavelength of the wav files to produce different size of the rectangles to simulate the sound.

SKILLS

Technical Knowledge: Python, C++, Java, Django framework, HTML, CSS, JavaScript