Marco Gómez

My portfolio

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Education

- **EAFIT University** — Medellín, Co
  Bachelor's in Computer Science — *Jan. 2021 - Present*
  - **Programming Fundamentals**: This course provided me with a solid foundation to understand and tackle computer challenges, as well as the ability to create efficient and organized solutions.
  - **Data Structures I & II**: Through these courses, I acquired problem-solving skills and algorithmic techniques that empowered me to design efficient solutions for various computational challenges.
  - **Data Bases**: This course provided me with practical experience in designing, implementing, and maintaining databases to efficiently store and manage large datasets.
  - **Logic & Discrete Maths**: I gained a profound ability to analyze and solve complex problems using logical methods and mathematical principles in these courses.
  - **Software Development Principles**: The course provided me with essential knowledge about software engineering practices, agile methodologies, version control, and software testing. Additionally, I acquired hands-on experience in developing and maintaining efficient and robust code.

Extracurricular Activities - Experience

- **EAFIT University** — Medellín, Co
  Teacher Assistant — *Jun, 2022 - Present*
  - **Programming Fundamentals (Teacher Assistant)**: My dedication to assisting in lesson preparation, conducting tutorials, and providing individualized attention enables students to Java in their academic journey.
  - **Web Development Course**: Through this course, I learned essential front-end technologies such as HTML, CSS, and JavaScript, allowing me to create visually appealing and interactive user interfaces.
  - **React Course**: Through hands-on projects and real-world applications, I am honing my skills in React.js and exploring various libraries and tools within the React ecosystem.

Projects

- **University Semester GPA Calculator**: I developed a user-friendly web application that efficiently calculates the semester GPA for university students. This project involved implementing a responsive and intuitive interface using HTML, CSS, and JavaScript, and Bootstrap 5
- **Numeric Systems Conversion Web Page**: I have designed and developed a web page dedicated to performing seamless conversion of numeric systems. This user-friendly platform allows users to effortlessly convert numbers between binary, decimal, octal, and hexadecimal systems.
- **Search algorithms applied to citizen safety and harassment prevetion**: In the context of Medellín, street sexual harassment is just one aspect of the overall unsafe situations people face. Particularly, women bear the brunt of the insecurity in public spaces, leading to feelings of anger and discomfort. To address this issue, we propose a project that focuses on enhancing mobility options while considering the risk of harassment. Our goal is to develop an algorithm that incorporates harassment as a variable, thereby providing safer and more secure mobility alternatives for everyone. By doing so, we aim to contribute to the overall improvement of safety and well-being in our city.
- **Airplane Scheduling**: I successfully solved problem 11208 from uDebug, a highly challenging problem with limited solutions worldwide, achieved by only 11 individuals. Using Python, I tackled 87% of the total problem, demonstrating my proficiency in problem-solving and coding. My solution encompassed over 400 lines of code, showcasing my dedication and expertise in handling complex programming challenges.

Programming Skills

- **Languages**: Java, Python, JavaScript, SQL **Technologies**: React.js, Bootstrap 5, MySQL