Aisha Ahmed

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EDUCATION

University of California San Diego — San Diego, CA
Bachelor of Science in Computer Science — *Sept. 2021 – June 2025*

Relevant Coursework
Intro to OOP, Advanced Data Structures, Algorithms, Discrete Math, Computer Organizations

EXPERIENCE

NASA California Space Grant Consortium — July – Sept. 2023
Project Intern — *San Diego, CA*

- Engineered a **solar tracker** with omnidirectional pivoting using **dual servo motors** achieving precise alignment with the sun's position throughout the day.
- Utilized **photoresistors** to **optimize** sunlight angle detection for enhanced solar panel performance.
- Integrated **vibration motors** to **detect** and **clear** debris or dust accumulation on solar panels, improving operational efficiency.

Summer Internship for Incoming Students (SPIS) — August – Sept 2021
Software Engineer Intern — *San Diego, CA*

- Created a Food Generator Website (UCSD dining hall edition) using **HTML, CSS,** and **Python,** demonstrating strong **UX/UI** and **software development skills.**
- Mastered key concepts in lab settings, including **recursion and algorithmic problem solving** through close collaboration with UCSD CSE faculty.
- Selected from a competitive pool for a 2-month internship designed for high-achieving, diverse talent, emphasizing leadership and academic excellence.

PROJECTS

SaigonChildren | *Firebase, TypeScript, React, Chakra UI, Node.js* — March 2024 – June 2024

- Partnered with **Saigon Children International NGO stakeholders** to design and develop the backend architecture for a Mentor-Mentee matching tool using TypeScript.
- Implemented functionalities for **sign-up**, **log-in**, **user authentication** and **profile management**, allowing users to personalize their experience on the platform.
- Employed real-time database storage with **Firebase** to facilitate efficient mentor-mentee matching, incorporating a questionnaire to enhance mentorship effectiveness.

LEADERSHIP

Engineering and Development for Girls in Engineering — October 2023 – Present
Mentor — *San Diego, CA*

- Mentored high school girls in the EDGE program, fostering interest in STEM fields and providing guidance throughout their academic careers.
- Built a supportive community within the program, promoting networking and diversity in STEM through collaboration with **The Society of Women Engineers** and **Women in Computing at UC San Diego.**
- Encouraged sustained engagement in the program, motivating 9th to 12th graders to remain active participants, thereby promoting long-term success in STEM.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, Assembly, HTML, CSS
Frameworks: React, Chakra UI, Node.js, JUnit
Developer Tools: VS Code, Visual Studio, Eclipse
Other: Fluent in English, Somali, Arabic