Mohammed Arfa

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Bengaluru, India

I am a Computer Science student passionate about leveraging technology to solve real-world problems, proficient in multiple programming languages. Eager to contribute to innovative projects and drive impactful solutions in the tech industry.

Education

- **PES University** **2022 - Present**
  Bachelor of Technology, Computer Science and Engineering Bengaluru, India
- **The Samhita Academy** **2011 - 2022**
  1st Grade - 12th Grade [Physics, Chemistry, Mathematics and Computer Science] Bengaluru, India

Experience

- **Codincity Digital Technologies** **July 2024 - August 2024**
  Summer Intern Bengaluru, India
- **Destination Designs Private Limited** **September 2023 - January 2024**
  Project Intern - Next.js, React, MongoDB, Node.js, AWS Bengaluru, India
  - **Custom Image Optimization Pipeline**: Developed an advanced image optimization pipeline that reduced load times, enhanced scalability, and lowered operational costs.
  - **React and Next.js**: Created a dynamic and responsive user interface to display architecture projects using React, and transitioned database utilities from Express to Next.js Serverless functions, boosting performance and scalability.
- **PESU I/O** **August 2023 - Present**
  Deputy Manager

  PESU I/O is PES University's innovative peer-to-peer learning platform, I assist in developing and delivering diverse educational courses. My role includes collaborating with Subject Matter Experts and facilitating interactive forums and project collaborations, enhancing students' technical and professional skills.

Programming Skills

Languages: Python, C, C++, Go, JavaScript, SQL
Technologies: Git, GitHub, MERN Stack, Next.js, AWS, Raylib, HTML5, Tailwind CSS, Postman API, OpenCV

Projects

- **ListMe**: ListMe is a full-stack To-Do List application featuring user authentication, task management, and automated email notifications using **React, Node.js, Express and MongoDB Atlas.** Implements **JWT-secured API endpoints** and **Postmark** for mailing services.
- **Huffman Coding Visualizer**: Implements Huffman Coding for lossless data compression in **C**, with a visual representation of the Huffman Tree using **Raylib**. It demonstrates encoding processes through clear visual feedback, enhancing understanding of algorithmic efficiency.
- **Target**: This project implements a face tracking and locking system using **OpenCV** for face detection and an Arduino for controlling servo motors. The system consists of three main components: Arduino code for servo control, a **Python** script for face tracking, and a manual control interface using **Tkinter**.
- **ShopSmart**: ShopSmart is a simple shopping list application implemented using a **Go Microservice**. The project demonstrates various aspects of Go programming, including its concurrency model, standard libraries, and best practices for structuring Go applications.

Certifications

- **HackerRank - Problem Solving (Intermediate) Certificate**:
  It covers topics of Data Structures (such as HashMaps, Stacks and Queues) and Algorithms (such as Optimal Solutions).