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**
  CBSE 1st Grade - 12th Grade [Physics, Chemistry, Mathematics and Computer Science]   Bengaluru, India

Experience

- **Codincity Digital Technologies**   **July 2024 - August 2024**
  Summer Intern - **React, Node.js, Express, MongoDB Atlas and Tailwind CSS.**   Bengaluru, India
  Developed a project management tool using modern web technologies and following industry best practices. Modeled after Jira and Trello, the tool featured task management, user authentication, real-time updates, and automated notifications.

- **Destination Designs Private Limited**   **September 2023 - January 2024**
  Project Intern - **Next.js, React, MongoDB, Node.js, AWS**   Bengaluru, India
  www.destinationdesigns.net.in
  Collaborated with a team to develop and deploy a professional website for an architectural design client.
    - **Custom Image Optimization Pipeline**: Developed an advanced image optimization pipeline reducing load times and enhancing scalability.
    - **React and Next.js**: Created a dynamic user interface using React and transitioned database utilities to Next.js Serverless functions.

- **PESU I/O**   **August 2023 - Present**
  Deputy Manager   Bengaluru, India
  PESU I/O is PES University's peer-to-peer learning platform. I assist in developing and delivering educational courses, collaborating with Subject Matter Experts to enhance students' 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**: A full-stack To-Do List application with 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**: A **computer vision** project that 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**: A 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**: Covers Data Structures (HashMaps, Stacks, Queues) and Algorithms (Optimal Solutions).