

# 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 - September 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. This experience sharpened my skills in full-stack development, API integration, and UI design.
- **Destination Designs Private Limited** **September 2023 - January 2024**  
Project Intern - **Next.js, React, MongoDB, Node.js, AWS** Bengaluru, India  
[www.destinationdesigns.net.in](http://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 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 Bengaluru, India  
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, Computer Networking (TCP/IP, DNS, HTTP/HTTPS, Network Security)

## 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).