SHAIK HAFREED

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Summary

Motivated B.Tech Computer Science Engineering student with hands-on experience in Full Stack Development, AI-powered applications, and embedded systems. Completed an internship in UI/UX and data platform engineering at IIT Madras – Walmart Center for Tech Excellence (WCTE). Passionate about building scalable software solutions, leading engineering teams, and developing impactful real-world applications. Seeking further internship opportunities to apply technical skills while contributing to innovative software projects.

Education

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology **2024 – Present**
Bachelor of Technology — Computer Science Engineering
CGPA: 8.5

Narayana Junior College **2024**
Higher Secondary Education (Class 12)
Percentage: 90.3

Ratnam High School **2022**
Secondary Education (Class 10)
Percentage: 92.83

Projects

Smart Football AI Analytics System **ESP32, MPU6050, Arduino IDE, Python Flask**

- IoT football analytics platform using ESP32, MPU6050, vibration sensor, Flask backend, and React dashboard to analyze speed, spin, force, distance, and shot events in real time.

AI Smart Cupboard **ESP32-CAM, DeepFace, Flutter, Flask**

- AI facial-recognition locker using ESP32-CAM, DeepFace, Flutter, Flask, Firebase notifications, and JWT security. Unknown users trigger alerts, evidence photos, and remote approval.

Tulasi — AI Native 3D Designer **OpenCV, Three.js, CadQuery, OpenCascade**

- Transforms a single photo into an editable, dimension-aware 3D model using generative AI, computer vision, parametric modeling, and browser-based rendering.

SR Mobiles — Stock Management System **Flutter, Python/Flask, PostgreSQL (Supabase), Firebase Auth**

- Full-stack inventory, billing, and operations app for a mobile accessories retail shop — replacing manual, paper-based stock tracking with real-time inventory, GST billing, and reporting used daily to run the business.

AgriAI — AI-Powered Farming Assistant **React Native (Expo SDK 54), Expo Router, Firebase Authentication, Firestore**

- Mobile app giving small and mid-scale Indian farmers low-friction access to AI crop guidance, disease diagnosis, weather alerts, market prices, and government scheme info — offline-first and available in 6 Indian languages.

SahayAI — AI-Driven Scheme Matching for Marginalized Entrepreneurs **Next.js 14 (App Router), TypeScript, React 18, PostgreSQL**

- Full-stack platform that guides entrepreneurs from marginalized communities through an adaptive assessment to a deterministic, explainable eligibility engine, ranked government scheme recommendations, a financial calculator, and application readiness tracking.

AquaGuard — Diver Safety & Telemetry Platform **React, TypeScript, Vite, Tailwind CSS**

- Underwater diver-safety and telemetry platform — a vessel-side "mission control" dashboard giving an operator a real-time view of a dive team's depth, distance, heart rate, O2, motion, and threat state from the surface.

MANGO — Tamil Nadu Electricity Demand Forecasting **Python, Random Forest, scikit-learn, Streamlit**

- An end-to-end Tamil Nadu electricity demand forecasting pipeline built on MANGO, an industrial AI platform with a drag-and-drop flow builder: an 11-block flow around a Random Forest model, with a forecast-vs-actual dashboard.

Technical Skills

Programming Languages: C, Python (Basic), Java (Basic)
Web Development: HTML, CSS, React, Node.js
Mobile Development: Android Studio
Tools & Platforms: Git, GitHub, VS Code

Experience

UI/UX & Data Platform Intern — MANGO **Sep 2026 – Oct 2026**

IIT Madras – Walmart Center for Tech Excellence (WCTE), Chennai, Tamil Nadu

- Contributed to the UI/UX redesign of MANGO, a flow-based AI/data-science platform for manufacturing analytics, covering navigation, flow builder, and dashboard experience.
- Built and deployed an end-to-end Tamil Nadu electricity demand forecasting pipeline on MANGO (Random Forest, 42 features, R^2 0.88, MAPE 4.03%) and extended the same architecture to a second utility (natural gas) using real PPAC consumption data.
- Published two public datasets on GitHub under CC BY 4.0 (Tamil Nadu electricity demand, India natural gas demand) to support the forecasting pipelines.
- Implemented ML teaching use cases (Linear Regression, SVM, K-Means, Reinforcement Learning) on MANGO's Flow Builder as internal training material.

Team Leader — Full Stack Application Development **2026 – Present**

Vel Tech University

- Leading the design and development of a full-stack software application as Team Leader.
- Coordinating frontend (React.js), backend (Node.js/Flask), and database development activities.
- Managing GitHub repositories, reviewing code contributions, and maintaining project documentation.
- Collaborating with team members using Agile development practices to ensure timely project delivery.
- Mentoring teammates, assigning development tasks, and resolving technical challenges throughout the project lifecycle.

Certifications

Internship Completion Certificate **Oct 2026**

IIT Madras – Walmart Center for Tech Excellence (WCTE)

Soft Skills

- Leadership
- Team Management
- Communication
- Problem Solving
- Critical Thinking
- Time Management
- Adaptability
- Collaboration