AKSHAJ V NAIR

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Full Stack Developer | React & Python

PROFESSIONAL SUMMARY

Full Stack Developer specializing in React and Python, focused on building high-performance, scalable web applications. Experienced in designing intuitive UI/UX and developing robust backend APIs with database integration. Passionate about modern web technologies, clean architecture, and delivering real-world business solutions.

TECHNICAL SKILLS

Languages: Python, Java (Basic), HTML5, CSS3

Frontend: React.js, Redux (Basic), Tailwind CSS, Framer Motion, Vite

Backend: Flask, FastAPI, Node.js (Basic), RESTful APIs, JWT Authentication

Databases: MySQL, PostgreSQL, SQLite, SQLAlchemy

Tools & Deployment: Git, GitHub, VS Code, Postman, Docker, Vercel, NPM

PROJECTS

EcoScan AI   **React, Python (Flask/FastAPI)**

- Built an AI-powered food analysis web application utilizing Tesseract OCR and Groq Llama-3 models for real-time ingredient analysis.
- Developed a personalized health scoring algorithm considering user dietary preferences and medical conditions.
- Implemented an eco-score evaluation system to assess the environmental impact of food products.
- Designed a secure authentication system with JWT and managed user scan history using SQLite and SQLAlchemy.
- Engineered a microservice architecture to decouple OCR processing for improved scalability.

Peepul Tree School Website   **React, Vite, Tailwind CSS**

- Developed a fully responsive, modern school website featuring dynamic components like galleries, testimonials, and timelines.
- Integrated Google Apps Script to automate admission inquiries directly into Google Sheets, streamlining administrative workflows.
- Optimized performance and SEO through semantic HTML, lazy loading, and efficient asset management.
- Implemented smooth animations and transitions using Framer Motion to enhance user engagement.

INTERNSHIP EXPERIENCE

Intern – ITBG, Knowledge Services Group   **Apr 2025 – May 2025**

Kerala State Electronics Development Corporation Ltd. (KELTRON)

- Completed intensive hands-on training in Python programming fundamentals and GUI application development using Tkinter.
- Developed practical applications demonstrating mastery of control structures, modular programming, and data manipulation.
- Collaborated on team exercises to solve algorithmic problems and optimize code efficiency.

EDUCATION

B.Sc. Computer Science   **2023 – 2026**

Yuvakshetra Institute of Management Studies, Palakkad