

RAJATH KIRAN A

COMPUTER SCIENCE STUDENT & WEB DEVELOPER

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EXPERIENCE

Web Developer — Freelance

Nov 2024 - Dec 2024

Nexara

- Developed two production websites (Plumbing Services + NGO) using WordPress and Divi — full setup, plugin configuration, performance optimization, and client delivery.
- Designed social media content (Reels, Carousel Posters) in Canva for brand clients, improving digital engagement.
- Technologies used: WordPress, Divi, UI/UX Design, Canva
- Utilized Local for local development environments to streamline site staging, testing, and configuration before production deployment.
- Leveraged the Divi template builder to architect custom, responsive layouts and reusable components for diverse client requirements.

EDUCATION

Vivekananda College of Engineering & Technology, Puttur · VTU, Karnataka

2023 - 2027

B.E. in Computer Science & Engineering

CGPA: 8.8 / 10.0. Pre-University (PCMC) — Narendra PU College, Puttur: 93.33%. SSLC — Morarji Desai Residential School: 98.08%. No active backlogs.

PROJECTS

AyuDost (MediQ) — AI-Powered Healthcare Platform

2024 - Present

Full-stack Developer

- Full-stack healthcare platform: appointment booking, real-time hospital locator (Maps API), QR medicine scanning, emergency contacts, and Supabase authentication.
- Integrated Vertex AI / Gemini for AI-assisted diagnostics.
- Co-built Ayurvedic remedy REST API with team. Leading v2 with ML diagnostics module on Google Cloud.
- Technologies: React.js, Supabase, Node.js, Vertex AI / Gemini, Google Maps API, Google Cloud

COPD Detection & Severity Classification — Deep Learning Research

2024 - 2025

Lead Researcher

- Designed a CNN-LSTM hybrid model for automated COPD detection and severity grading on the ICBHI 2017 Respiratory Sound Database (920 recordings, 6898 breathing cycles).
- Full feature engineering pipeline: MFCC extraction, spectrogram generation, data augmentation for class imbalance.
- Led model architecture, training, evaluation, and academic presentation.
- Technologies: Python, TensorFlow / Keras, CNN-LSTM, Signal Processing, MFCCs, Healthcare AI

Developer

- IEEE Award Winner — I² CONNECT-2K24, IEEE VCET Student Chapter.
- Interactive quizzes, text-to-speech, and dictionary for children.
- Technologies: HTML5, CSS3, JavaScript, Web Speech API
- Continuing the development of the platform as an ongoing project to expand educational features and enhance the user experience for young learners.
- Iterating on core functionalities and maintaining the codebase to ensure long-term scalability and performance.
- Managing the project lifecycle post-competition, focusing on the integration of additional interactive learning modules.

Cinematic 3D Portfolio

2025

Developer

- Immersive 3D portfolio using Three.js — custom shaders, OrbitControls, and bloom post-processing.
- Debugged a read-only Vector3 runtime bug in Three.js r128.
- Technologies: Three.js, WebGL, GLSL Shaders, JavaScript

SKILLS & AWARDS

- Technical Skills:** C, C++, Java, JavaScript, Python, React.js, HTML5, CSS3, Three.js, WebGL, Node.js, Supabase, MongoDB, SQL, REST API Design, Google Cloud Platform, Kubernetes, Docker, GitHub Actions, CI/CD, Vertex AI, Gemini Multimodal, CNN-LSTM, TensorFlow / Keras, NLP, LangChain, RAG, HuggingFace, Git, Postman, Figma, Canva, WordPress, Linux, Agile
- Certifications:** NPTEL — Joy of Computing Using Python (IIT Madras), Google Cloud Docker & Kubernetes (Arcade 2026), Elements of Artificial Intelligence — Univ. of Helsinki, Introduction to Generative AI — Google Cloud, React.js & DSA & C++ & Linux — Infosys Springboard, Responsive Web Design — freeCodeCamp, Cybersecurity & Networking
- Awards:** IEEE VCET Award Winner — I² CONNECT-2K24, 2× VTU Topper — Code360 Monthly Challenge