RAJATH KIRAN A

Puttur, Karnataka | +91-74839 75463 | rajathajeru@gmail.com | linkedin.com/in/rajath-kiran | github.com/Rajath2005 | rajathkiran.me

SUMMARY

Computer Science undergraduate (B.E., CGPA 8.9/10, graduating 2027) with hands-on experience in full-stack development, AI/ML, and cloud technologies. Built production-grade applications and deep learning solutions using React, Node.js, Python, Google Cloud, and modern DevOps practices. IEEE I² CONNECT-2K24 Winner, 2× VTU Code360 Topper, and open-source maintainer with a strong foundation in software engineering, data structures, and scalable system design.

EXPERIENCE

Web Developer (Freelance) | Nexara | Remote Nov 2024 – Dec 2024

- Delivered 2 production websites end-to-end (HTML, CSS, JavaScript, WordPress) within a 6-week engagement, handling responsive UI, plugin configuration, and performance optimisation.
- Maintained version-controlled codebase using Git with branching strategy, commit conventions, pull requests, and CI/CD deployment pipelines.

EDUCATION

B.E. in Computer Science & Engineering 2023 – 2027

Vivekananda College of Engineering & Technology, Puttur | VTU, Karnataka | CGPA: 8.9 / 10.0

Coursework: Data Structures & Algorithms, OOP, Operating Systems, Database Management Systems, Computer Networks

SKILLS

Programming Languages: C++, Java, JavaScript, TypeScript, Python, C

Core Fundamentals: Object-Oriented Programming (OOP), Data Structures & Algorithms (DSA), Software Development Life Cycle (SDLC)

Frameworks & Libraries: React.js (v19), Node.js, Express.js

Tools & Practices: Git, GitHub, GitHub Actions, Docker, Kubernetes, Linux, CI/CD Pipelines

Databases: MySQL, MongoDB, Supabase, Firebase

Cloud Platforms: Google Cloud Platform (GCP), Vertex AI, Cloud Run, Netlify

PROJECTS

COPD Detection & Severity Classification — VTU Major Project (In Progress) 2025 – Present

(Python, PyTorch, Librosa, CNN-LSTM) | github.com/Rajath2005/COPD

- Designing a CNN-LSTM hybrid deep learning model for automated COPD binary detection and 4-class GOLD severity grading (Normal/Mild/Moderate/Severe) on the ICBHI 2017 dataset (920 recordings, 6,898 annotated respiratory cycles), targeting >90% binary classification accuracy.
- Built end-to-end audio preprocessing pipeline — noise reduction, resampling to 22,050 Hz, 128-band Mel-spectrograms, 40-coefficient MFCCs, and data augmentation — automating segmentation of 6,898 respiratory cycles from raw annotation files.

AyuDost — Full Stack AI Healthcare Platform 2024 – Present

(React.js, Node.js, Express.js, PostgreSQL, Supabase, Vertex AI/Gemini, Docker) | mediq-health.netlify.app | github.com/Rajath2005/mediq

- Developed and shipped a production-grade full-stack web application serving 20+ users, implementing REST APIs (Node.js/Express.js), PostgreSQL database management, appointment booking, Google Maps API integration, and Supabase/Firebase authentication via pull requests and CI/CD pipelines.
- Architected a 10-step RAG pipeline combining Pinecone vector search with MongoDB keyword search and a hallucination-check stage, delivering context-aware AI-assisted Ayurvedic diagnostics using Vertex AI/Gemini.

Developer Portfolio & Cloud Intelligence Center 2024 – Present

(JavaScript, Astro, D3.js, Three.js, Netlify) | rajathkiran.me | cloud.rajathkiran.me

- Built and deployed a responsive developer portfolio showcasing 25+ projects, technical blogs, and an AI assistant using Astro, JavaScript, and Netlify.
- Engineered an interactive Cloud Intelligence Centre with 3D visualisations of Google Cloud skills and achievements using D3.js and Three.js, demonstrating modern UI/UX and data visualisation.

CERTIFICATIONS & AWARDS

- IEEE I² CONNECT-2K24 Winner · 2× VTU Code360 Topper
- Google Cloud Arcade Silver League · ISRO National-Level Hackathon 2K26 Participant
- Scaler National-Level Hackathon 2K26 — Qualified Initial Screening Round
- NPTEL (IIT Madras) — The Joy of Computing Using Python (Score: 78%) · Google AI Essentials