

Jeevan George Joseph

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📍 Jeevan George Joseph · 🌐 jeevanjoseph03 · 📁 Portfolio

Professional Summary

AI-focused Computer Science student and co-founder of an award-winning startup (LUNALABS). I specialize in architecting and building scalable, multi-tenant SaaS platforms from concept to deployment. My expertise lies in designing complex, asynchronous backends (FastAPI, Celery, PostgreSQL) and engineering real-time AI voice systems (Node.js, WebSockets). I have a proven ability to lead product development and deliver cloud-native AI solutions.

Education

Bachelor of Technology - Computer Science and Engineering

Muthoot Institute of Technology and Science, APJ Abdul Kalam Technological University

September 2023 - Present

CGPA: 8.55

Core Technical Skills

Programming Languages: Python · Java · C · SQL

Frameworks & Libraries: FastAPI · Celery · SQLAlchemy · WebSockets · React.js · Node.js · TailwindCSS · REST APIs

AI/ML Technologies: Large Language Models · Agentic AI · Multi-Agent Systems · Crew AI · Prompt Engineering

Cloud & Platforms: Twilio · IBM WatsonX · Microsoft Azure · Google Cloud Platform · Vertex AI · API Security

Databases & Tools: PostgreSQL · Redis · Docker · JWT · Git · Vercel · VS Code · Google Colab

Professional Experience

Lead Backend Architect - RIVOCT

AI-First Communications Platform (SaaS)

Sep 2025 – Present

Cochin, Kerala

- Architected and engineered the complete backend for a multi-tenant, AI-first communications platform (CPaaS) using Python (FastAPI), PostgreSQL, and Celery with Redis.
- Implemented a secure, end-to-end authentication system featuring asynchronous magic link signups, JWT-based sessions, and robust Role-Based Access Control (RBAC) for user vs. admin privileges.
- Developed a complete asynchronous campaign engine, from initial draft and recipient upload to a full moderation pipeline (automated & manual) and final message execution.
- Engineered the real-time infrastructure for an AI voice agent, utilizing a Node.js WebSocket bridge to handle live audio streams for AI processing (Speech-to-Text/Text-to-Speech).

Co-Founder & Technical Lead - LUNALABS

Startup

Feb 2025 – Present

Cochin, Kerala

- Architected and developed VigilCare AI-powered ambulance monitoring system utilizing computer vision and machine learning algorithms for real-time injury detection and automated hospital diagnostics
- Designed and implemented Wofe portable IoT emergency alert device integrating GPS geolocation technology for instant emergency contact communication
- Spearheaded technical strategy and product development initiatives, managing end-to-end software development lifecycle for healthcare innovation solutions

Technical Projects

ELSA - AI Voice Therapist and Mental Health Assistant

March 2025 – Present

- Built a voice-first AI companion leveraging Groq (Llama 3.3 70B), Microsoft Azure Cognitive Services for TTS, the browser Web Speech API for STT, and a React frontend (Framer Motion, Tailwind CSS)
- Integrated contextual memory and an empathetic persona with SSML-tuned Azure voice, a custom UI, interruptible conversations, and chat history for real-time support

Multi-Agent AI System - Autonomous Decision Framework

May 2025 – July 2025

- Engineered intelligent multi-agent system processing emails, PDFs, and JSON data with contextual reasoning and persistent memory capabilities
- Integrated Classifier, Router, and Parser Agents using FastAPI framework, SQLite database, and REST API endpoints to automate complex workflows

IBM WatsonX and Granite AI Workflow Integration

June 2025 – July 2025

- Deployed enterprise-grade AI workflows leveraging IBM watsonx.ai platform and Granite-3-3-8b-instruct model for production environments
- Developed multi-agent onboarding assistant featuring Streamlit user interface to generate automated structured outputs

Achievements & Recognition

- Finalist - Indian Startup League 2025** for LUNALABS, recognized among top startups nationwide
- 2nd Prize - SHRESHTA '25 Launchpad**, MITS TechFest for VigilCare emergency response system
- Featured Presenter** at SRISHTI 2025 Startup Expo showcasing AI-driven healthcare innovation

Certifications & Training

- Microsoft Azure AI Fundamentals (AI-900)** — Cloud-based AI/ML services and implementation strategies
- IBM Introduction to Data Analytics** — Data wrangling, visualization, and mining workflows
- Prompt Design in Vertex AI** — prompt engineering, image analysis, and multimodal generative techniques
- Google Cloud Foundational AI Tasks** — Hands-on ML pipelines and AI implementation on GCP

Updated: November 2025