

S.YOGADHARSHAN

Full-Stack Developer | Portfolio: yogadharshan.vercel.app

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EXPERIENCE

Student Software Developer 2025 - Present

Ramco Institute of Technology, Rajapalayam

- Architected and solely built RIT Canvas (ritcanvas.in), the college LMS, and its React Native Android app: 55-table schema, role-based access, 2,139 students and 169 educators.
- Engineered backend services for AI quiz generation from PDF, DOCX and PPTX (Docling, Ollama), a real-time quiz engine with server-side timers, and cron jobs.
- Run the platform fully self-hosted, not on cloud hosting: 10 Docker replicas deployed with Dokploy behind Traefik and a Cloudflare Tunnel, plus a self-hosted Convex backend.
- Co-developed the RIT ERP (ritrjpm.edu.in) in a 7-member team on Python, Django and MySQL: 14 production modules, including student and staff portals and online fee payment.
- Built RIT Pulse, a live quiz platform with server-scheduled timers designed to save about 90,000 database reads per question at 300 players, and co-built RIT REACH's proctored exams.

Freelance Game Developer 2024 - Present

Solar Scripts (solarscript.in)

- Build and sell 10+ FiveM (GTA V) scripts in Lua, React and MySQL for ESX, QBCore and Qbox; 50+ custom scripts delivered.
- Designed a 35-table MySQL schema for a 17-page police dispatch and records system with 151 client-server callbacks.
- Modelled 3D props in Blender (in-car screen, surveillance kit, house shell) and shipped them as native GTA V assets.

Organiser and Developer Sep 2026

HackFinity 3.0, Ramco Institute of Technology

- Co-organised RIT's 24-hour hackathon: 31 teams, 114 participants, 50 problem statements and a Rs. 30,000 prize pool.
- Built the event website (hackfinity3.0.ramcoad.com) and the React Native judging app with role-based access, a configurable 10-criterion rubric and QR check-in.

AI Intern Jun 2026

Mentron

- Built semantic search with sentence-transformer embeddings, structured LLM output and LangChain pipelines in Python.

PROJECTS

AI Video Clipping Agent | Python, YOLO, faster-whisper, FFmpeg

- Built a six-stage pipeline that cuts long videos into captioned vertical shorts in Tamil, Hindi and Telugu, with parallel GPT and Gemini planning and YOLO face tracking.

LUMEN query agent | Python, FastAPI, LangGraph, PostgreSQL, MongoDB

- Designed a five-step agent that writes, validates and explains SQL and MongoDB queries from plain English, blocking destructive statements.

EDUCATION

B.Tech, Artificial Intelligence and Data Science

Ramco Institute of Technology
2024 - 2028 | CGPA: 7.13/10

Higher Secondary (Class 12)

N.A. Annaparaja Memorial Hr. Sec. School
2022 - 2024 | 376/600 (62.7%)

Secondary School (Class 10)

AKDR Boys Hr. Sec. School
2022 | 370/500 (74%)

TECHNICAL SKILLS

Backend

Python, Django, Node.js, REST APIs, Convex, FastAPI

Databases

PostgreSQL, MySQL, MariaDB, MongoDB, Supabase, Firebase

DevOps

Docker, Dokploy, Traefik, CI/CD, Cloudflare, Git

Frontend and mobile

React, React Native, Next.js, TypeScript, Tailwind

AI, game and 3D

LangChain, Ollama, Lua, FiveM, Blender

BACKEND STRENGTHS

Schema design, query tuning, auth and RBAC, real-time systems, cron jobs, REST APIs, Docker, CI/CD, self-hosting

LIVE WORK

RIT Canvas (LMS): ritcanvas.in

RIT ERP: ritrjpm.edu.in

RIT Pulse: pulse.ramcoad.com

RIT REACH: ritreach.ritrjpm.ac.in

Solar Scripts (FiveM, freelance): solarscript.in

ACHIEVEMENTS

- Listed RIT ERP developer
- Organised HackFinity 3.0
- Pitchathon 2026 entrant

LANGUAGES

English, Tamil