

Jayan Subramanian

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Education

Bachelor of Technology in Computer Science - Artificial Intelligence Amrita Vishwa Vidyapeetham, Coimbatore	CGPA: 9.16 2023 - 2027
High School Kaumaram Shushila International Residential School, Coimbatore	AS & A Level: 93% 2021 - 2023
Secondary School Kaumaram Shushila International Residential School, Coimbatore	IGCSE: 95% 2019 - 2021

Experience

Frontend Developer, EasyEPFO – Bangalore	Jan 2024 – Jan 2025
<ul style="list-style-type: none">Configured DNS and deployed a Squarespace website for a client, ensuring zero downtime during launch for a site serving 5,000 monthly visitors and enabling scalable custom features that supported a 20% growth in the user base.Integrated Zapier-based automation to send real-time appointment notifications via API and webhook workflows, reducing notification delivery time by 65% and improving operational efficiency by 35%.Developed the frontend of a custom platform using React.js and led the complete migration from Squarespace to the new code-based system, resulting in 30% faster page load times via SSR and the ability to handle 3x more concurrent users.	

Achievements

2nd Place – Ignite Leadership Summit (Business & Innovation Track)	Dec 19-21, 2024
8th in India, Top 100 globally – GPN Capture The Flag (Team Qubitronix, by KITCTF)	Jun 21–22, 2025

Technical Skills

Programming Languages: Python, C/C++, JavaScript/TypeScript, SQL, Bash, PowerShell
AI & ML: PyTorch, TensorFlow/Keras, Scikit-Learn, HuggingFace, OpenCV, LangChain, Pinecone, MLFlow
Web Development: FastAPI, Node.js, Express.js, React.js, Next.js, Hugo, REST API, tRPC
Cloud & DevOps: Docker, Podman, OCI, GCP, Git, GitHub, Kafka
Tools & Testing: Postman, Selenium, BeautifulSoup, Bun, Puppeteer

Projects

LaunchPad <i>React.js, Node.js, Express.js, Docker, Kafka, Redis, Nginx, MongoDB, MinIO</i> Scalable PaaS for automated CI/CD, orchestrating code ingestion to production deployment via microservices. Features distributed queuing (Kafka/Redis), S3-compatible storage (MinIO), and dynamic Nginx reverse proxying and load-balancing.	
Elenchus <i>Next.js, ADK, FastAPI, PydanticAI, Upstash Redis, NeonDB</i> Agentic Socratic tutoring system using a forest of specialist AI agents to guide learners through questions rather than answers, featuring misconception detection, adaptive difficulty, and personalized memory for improved learning outcomes.	Website
GameSiphon <i>Next.js, Supabase, PostgreSQL, tRPC, Pinecone</i> Scalable game discovery and distribution platform indexing over 1,500 games with real-time sync, advanced search, and personalized recommendations that increased user session times by 20% in testing.	Website
DocuMate <i>FastAPI, CrewAI, Next.js, ChromaDB, Langchain, HuggingFace, Appwrite</i> Multi-agent orchestration platform with adaptive retrieval architecture for context-grounded educational scaffolding and intelligent content generation, improving student quiz scores by 17% in pilot studies with 50 users.	Website

Extracurriculars

Public Relations - Design Team Lead Quizkrieg - Quiz Club	Jun 2024 - Jun 2025
Agentic AI Team - Engineer Intel IoT Club - AIoT Wing	May 2024 - Present

Certifications

Google Professional Certificate - Data Analytics	Aug 2023
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