

# Jayan Subramanian

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## Education

<b>Bachelor of Technology in Computer Science - Artificial Intelligence</b> Amrita Vishwa Vidyapeetham, Coimbatore	<b>CGPA: 9.18</b> 2023 - 2027
<b>High School</b> Kaumaram Shushila International Residential School, Coimbatore	<b>AS &amp; A Level: 93%</b> 2021 - 2023
<b>Secondary School</b> Kaumaram Shushila International Residential School, Coimbatore	<b>IGCSE: 95%</b> 2019 - 2021

## Experience

<b>Frontend Developer</b> , EasyEPFO – Bangalore	<b>Jan 2024 – Jan 2025</b>
<ul style="list-style-type: none"><li>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.</li><li>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%.</li><li>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.</li></ul>	

## Achievements

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

## 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, Vue.js, Hugo, REST API, tRPC  
**Cloud & DevOps:** Docker, Podman, OCI, GCP, Git, GitHub  
**Tools & Testing:** Postman, Selenium, BeautifulSoup, Bun, Puppeteer

## Projects

<b>Pathway Analysis</b>   <i>FastAPI, PyTorch (GAT), Next.js, Overpass API</i>	<b>Demo</b>
Full-stack ML platform using Graph Attention Networks to predict cancer risk from multi-omics data with 96% accuracy, featuring real-time visualizations and secure APIs for healthcare insights on datasets comprising over 2,000 samples.	
<b>Elenchus</b>   <i>Next.js, ADK, FastAPI, PydanticAI, Upstash Redis, NeonDB</i>	<b>Website</b>
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.	
<b>GameSiphon</b>   <i>Next.js, Supabase, PostgreSQL, tRPC, Pinecone</i>	<b>Website</b>
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.	
<b>DocuMate</b>   <i>FastAPI, CrewAI, Next.js, ChromaDB, Langchain, HuggingFace, Appwrite</i>	<b>Website</b>
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.	

## Extracurriculars

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

## Certifications

<b>Google Professional Certificate - Data Analytics</b>	<b>Aug 2023</b>
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