Jayan Subramanian

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Education

Bachelor of Technology in Computer Science - Artificial Intelligence — **CGPA**: 9.16
Amrita Vishwa Vidyapeetham, Coimbatore — 2023 - 2027

High School — **AS & A Level**: 93%
Kaumaram Shushila International Residential School, Coimbatore — 2021 - 2023

Secondary School — **IGCSE**: 95%
Kaumaram Shushila International Residential School, Coimbatore — 2019 - 2021

Experience

Systest Engineer, Arista Networks – Bangalore — **April 2026 - Aug 2026**

- Owned end-to-end validation of an egress traffic filtering feature on a Broadcom ASIC, architecting a test plan and executing 50+ testcases across 25+ builds to ensure feature reliability ahead of release.
- Built Python-based automation for continuous testcase execution and leveraged generative AI to batch-generate test scripts, cutting manual test-authoring effort and accelerating validation turnaround.
- Debugged failures at the intersection of ASIC packet-forwarding logic and control-plane software, collaborating with feature-development engineers to isolate root causes and close functional gaps pre-release.

Frontend Developer, EasyEPFO – Bangalore — **Jan 2024 – May 2024**

- 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, Claude, Codex, MCP
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 | ***React.js, Node.js, Express.js, Docker, Kafka, Redis, Nginx, MongoDB, MinIO***
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 | ***Next.js, ADK, FastAPI, PydanticAI, Upstash Redis, NeonDB*** — **Website**
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.

GameSiphon | ***Next.js, Supabase, PostgreSQL, tRPC, Pinecone*** — **Website**
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.

DocuMate | ***FastAPI, CrewAI, Next.js,*** *ChromaDB, Langchain, HuggingFace, Appwrite* — **Website**
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.

Certifications

Google Professional Certificate - Data Analytics — **Aug 2023**