

Sanjai M

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Professional Summary

Software Engineer with experience building enterprise SaaS platforms, backend architectures, and AI-powered workflow automation. Passionate about solving complex engineering problems through scalable software design, cross-functional collaboration, and production-ready systems.

Education

Bachelor of Engineering in Computer Science and Engineering (CGPA: 8.085 / 10) Chennai
Sri Sivasubramaniya Nadar College of Engineering 2024 – 2028

Experience

DreamPi | dreampi.in Apr 2026 – Jun 2026
Software Developer Intern | Onsite Chennai

- Engineered **5+ production-grade software features** across healthcare, education, and SaaS within an **Agile cross-functional team**, delivering high-quality code through end-to-end development, testing, debugging, and deployment, reducing external vendor dependency by **60%**.
- Engineered a custom **Model Context Protocol (MCP)** server architecture by designing typed tool schemas and orchestrating AI-powered workflow automation, enabling scheduling and task routing for a university management system in live pilot deployment at **Vels University**, reducing process turnaround time by **40%**.

Bytes Brush | bytebrush.in Oct 2025 – Present
Software Developer | Freelancer | Remote Chennai

- Redesigned **Raj Informatica's** legacy website by transforming **24 interconnected pages** into a cohesive SaaS-style web application, integrating **Razorpay** for secure payments, and collaborating with stakeholders to iteratively refine requirements, validate features, and deliver a production-ready solution.
- Designed and developed **workflow engines and enterprise SaaS interfaces** for **VeluraHQ**, integrating AI-powered services into configurable automation pipelines and **iteratively refining SEO and AEO workflows through continuous stakeholder feedback, validation, and testing** to streamline end-to-end content operations.

Projects

Thaakam – Bilingual AI Early-Warning & Learning Platform Link
Tech Stack: Next.js | TypeScript | Supabase | Sarvam AI | Google Gemini

- Built the **backend infrastructure for an AI-powered student success platform** addressing Tamil Nadu's 8.5% secondary school dropout rate, enabling real-time consolidation of attendance, academic performance, and engagement data into actionable insights for educators and administrators.
- Developed an intuitive role-based SaaS platform for students, teachers, parents, administrators, and government officials, integrating curriculum-grounded **bilingual AI assistance** that delivers contextual learning support in **under 1.6 seconds**.

CodeVista – Developer Intelligence Platform Link
Tech Stack: Next.js | Node.js | TypeScript | Supabase | Redis

- Unified **4+ standalone developer tools** into a Monaco-based IDE supporting live code execution, AI-generated Big-O complexity analysis, and step-by-step execution tracing across Python, JavaScript, and C++, reducing context-switching overhead for developers.
- Cut repeated AI inference latency by **65%** through a cache-first **Redis** layer that short-circuited redundant API calls for previously analyzed code patterns.

Nadi – AI-Native Hospital Management System Link
Tech Stack: Next.js | TypeScript | Supabase | Docker | Google Gemini

- Reimagined fragmented hospital software as an **AI-native operating system**, consolidating clinical, operational, insurance, and compliance workflows into a unified platform by architecting the end-to-end backend that serves as the hospital's single source of truth.
- Transformed how healthcare professionals interact with hospital systems by building an intuitive multi-role SaaS experience and engineering the **Asha** AI execution layer, designing the MCP architecture with **100+** typed tools that securely automate database-backed workflows in **under 3 seconds**.

Technical Skills

Languages: Java, C, Python, JavaScript, TypeScript

Frameworks: Next.js, React.js, Node.js, Express.js, FastAPI, REST APIs, Flutter, Tailwind CSS

Databases: PostgreSQL, Supabase, MySQL, MongoDB

Tools & DevOps: Redis, Docker, AWS, Postman, Git, GitHub, Vercel, Render, CI/CD Pipelines

Core CS: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks

Achievements

- Led **Smart BloodChain** to national recognition by securing selection among the top **505 teams** from **50,000+** participants in **MSME Hackathon 5.0**, with the project approved for **Rs. 15 Lakhs** in Government funding.