Senthilkannan Arjunan

Lead UI Engineer by Profession | Full Stack Developer + AI Engineer by Passion

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SUMMARY

I'm a UI Engineer with 6+ years of experience building scalable, high-performance user interfaces with React.js and Next.js. Over time, I've expanded my skillset beyond frontend to include backend development, database design, DevOps, and AI integration.

While my professional work has focused on frontend leadership, I have built and showcased multiple proof-of-concepts (POCs) in full-stack and AI-driven applications, gaining practical hands-on experience in Next.js, PostgreSQL, Docker, Proxmox, and AI APIs.

My goal is to bridge my strong frontend expertise with full-stack problem solving, delivering end-to-end solutions that are scalable, modern, and AI-ready.

WORK EXPERIENCE

Lead UI Engineer — Techdew UX Design Pvt. Ltd., Thoothukudi   Mar 2023 – Present

– Led and managed multiple React.js / Next.js projects from initiation to production deployment.
– Coordinated cross-functional teams (design, backend, QA) to deliver high-quality products on schedule.
– Implemented Agile Scrum (sprint planning, standups, reviews, retrospectives) and mentored 10+ developers.
– Architected performant frontends and integrated them with backend APIs; improved perceived performance and UX metrics.
– **POCs & AI / Full-Stack work (passion projects / internal demos):** designed and showcased internal full-stack and AI POCs (Next.js, n8n, PostgreSQL, Ollama/OpenAI, Docker, Proxmox), exploring model integrations, RAG pipelines, and inference deployments as internal demos and side projects.

Senior UI Engineer — Techdew UX Design Pvt. Ltd.   Mar 2022 – Mar 2023

– Designed and developed responsive, high-performance user interfaces.
– Collaborated with clients and backend teams on API contracts and data modelling.

UI Engineer — Techdew UX Design Pvt. Ltd.   Sep 2020 – Mar 2022

– Built reusable frontend components and implemented design-system patterns.
– Participated in code reviews and frontend performance optimizations.

UI Engineer Trainee — Techdew UX Design Pvt. Ltd.   Sep 2019 – Sep 2020

– Gained hands-on experience with React.js, HTML, CSS, and JavaScript in production projects.

SELECTED FULL-STACK & AI POCs (PASSION PROJECTS / DEMOS)

- **AI-Powered Creative Studio** — Text/image generation UI backed by Stable Diffusion models, containerized inference, Next.js frontend with Python backend and self-hosted deployment.

- **AI Job Practice Platform** — Local LLM powered resume analysis and interview practice (resume optimization, interview simulation (WIP), Next.js frontend + Ollama/local LLM, PostgreSQL for per-

sistence.

- **AI Agents / n8n Workflows** — Agentic workflow automation using n8n and local LLM for multi-step AI tasks, deployed on Proxmox / Docker-based self-hosted infra.

SKILLS

Frontend	React.js, Next.js, JavaScript (ES6+), TypeScript, Tailwind CSS, Storybook, Figma, Radix UI, Framer Motion.
Backend & Data	Next.js (server-side), FastAPI (Python), REST / GraphQL, PostgreSQL, data modelling.
AI / LLMs	Local LLMs (Ollama), RAG patterns, Stable Diffusion (Diffusers), prompt engineering, OpenAI / Hugging Face APIs, model inference pipelines.
DevOps / Infra	Docker, Proxmox (self-hosting / virtualization), CI/CD (GitHub Actions), containerized deployments and automation (n8n).
Architecture	End-to-end system design, performance optimisation, scalable modular architectures.

EDUCATION

2016 – 2019	Bachelor's in Computer Science, Government Arts and Science College, Kovilpatti — Manonmaniam Sundaranar University.

RECOGNITION & SPEAKING

2025	Chief Guest & Speaker — EITA-2K25 Computer Science Meet.
2022	Employee of the Year.
2020	Extra Miles Award.