

Pragadeesh Viralikattur Surendiran

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EDUCATION

Indiana University, Bloomington

Master of Science in Computer Science

CGPA: 3.89/4

August 2023 – May 2025

Bloomington, IN

Kumaraguru College of Technology

Bachelor of Science in Computer Science and Engineering

CGPA: 8.71/10

August 2019 - April 2023

Coimbatore, India

EXPERIENCE

IU Corps START Program

Owen County YMCA - Software Training Project Member

October 2024 – December 2024

Bloomington, IN

- Developed an activity management platform using NextJS 14 and Prisma ORM for YMCA staff to track 20+ programs including youth sports and fitness sessions, reducing administrative workload by 40%
- Implemented an automated notification system using Server Components and Nodemailer, allowing instant email updates to program coordinators about class capacities, attendance trends, and member participation
- Built a dynamic analytics dashboard with TailwindCSS and Shadcn/UI, providing staff with intuitive visualizations of program performance metrics, member engagement patterns, and automated attendance reports

OSI Digital

Software Developer Intern

May 2024 – July 2024

California, USA

- Developed and implemented key pages for large-scale ERP application using React and Redux, increasing user productivity by 25% and reducing data entry errors by 15% across the enterprise platform
- Engineered 10+ reusable components, including advanced ticket priority system and drag-and-drop functionality, reducing new feature development time by 30% and improving overall code maintainability by 40%
- Designed and integrated responsive UI elements with Material-UI and custom CSS, ensuring seamless user experience, increasing mobile user engagement by 50% and improving cross-device compatibility by 35%
- Utilized advanced React patterns and custom hooks, resulting in 40% reduction in bug occurrences and improved overall application performance by 35% as measured by Lighthouse scores

PROJECT

Nalvar - Enterprise IT Solutions and Services Platform Website

- Developed a comprehensive IT solutions website using Next.js and TypeScript with Framer Motion animations.
- Built a RAG-powered chatbot using LangChain enabling visitors to retrieve information about services.
- Created extensive services showcase highlighting managed IT, cloud services, and software engineering.
- Tech Stack: Next.js, ShadcnUI, TailwindCSS, LangChain, Pinecone, Framer Motion, Llama models

StyleSense AI - AI-Powered Wardrobe Management App

- Developed a mobile app with Gemini AI integration for AI-powered personalized outfit recommendations
- Built an intelligent calendar for outfit scheduling and wear history to eliminate wardrobe repetition
- Created analytics dashboard for wardrobe usage patterns to enable data-driven style decisions
- Tech Stack: NodeJS, Expo (React Native), Tamagui, Expo Router, Context API, Google Gemini AI, Firebase

CitroEssentialOils - Essential Oils Business Website

- Designed and developed a modern website using Next.js and TypeScript with dynamic product filtering
- Utilized Shadcn UI for accessible, performant components and professional interface
- Tech Stack: Next.js, React, TypeScript, Tailwind CSS, Shadcn UI, Google Maps API

TECHNICAL SKILLS

- **Languages & Frameworks:** TypeScript, JavaScript, Python, C++, C#, Java, Next.js, React, React Native, Expo, Tailwind CSS, Langchain
- **Backend & AI:** Node.js, Express.js, Prisma ORM, FastAPI, RAG , ASP .NET, AI Agents, LLM Integration
- **DevOps & Database:** Docker, Kubernetes, AWS, Vercel, PostgreSQL, MongoDB, Firebase, Supabase
- **Tools & Libraries:** Git, Redux, Context API, Material UI, Shadcn UI, Jest, PowerBI , Swagger

CERTIFICATIONS

- AWS Certified Developer - Associate