

Suraj Sreeprakash Menon

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EDUCATION

- Dayananda Sagar College of Engineering** Bengaluru, KA
B.E in Information Science (VTU); CGPA: 8.9 2022 - 2026
- Christ PU College** Bengaluru, KA
State Board; 88% 2020 - 2022

SKILLS

Languages: Python, JavaScript/TypeScript, SQL, Bash

Frontend: React, Next.js, Vite, Tailwind CSS, Recharts

Backend: FastAPI, Node.js, RESTful APIs

Databases & Cloud: PostgreSQL, Supabase, Firebase, SQLite, Vercel

DevOps & Tools: Git, GitHub Actions, Docker, RabbitMQ, Postman

EXPERIENCE

- Full Stack Developer Intern – BharatCrest Pvt. Ltd.** June 2025 - August 2025
 - Engineered **HRMatcher** recruitment platform automating candidate screening by processing 100+ resumes in under 5 minutes using **Google Gemini API** for intelligent skill-based filtering and similarity ranking.
 - Developed full-stack restaurant management system (**React + FastAPI**) with real-time order tracking, billing, and automated inventory management with low-stock alerts.
 - Optimized frontend bundle and implemented route-level code splitting and image lazy-loading; observed **20–30% reduction in client-side load times** in Lighthouse audits.

PROJECTS

- NammaLakes – FastAPI, RabbitMQ, Vite+React, Recharts, ML (Isolation Forest)**
 - Architected distributed IoT system processing 17,000+ data points daily from 3 sensors at 5-second intervals using **RabbitMQ** message queuing and fault-tolerant **FastAPI** microservices with structured logging.
 - Developed real-time analytics dashboard with rapid visualization updates using **Vite + Recharts**, integrating **Isolation Forest** ML model for automated water quality anomaly detection.
- Linux Starter Pack – Python, Next.js, Tailwind CSS**
 - Developed cross-platform TUI automation tool (**Python/Textual**) supporting 12 major Linux distributions with automated package manager detection, dependency resolution, and intelligent fallback handling.
 - Implemented parallel mirror latency checks and fallback selection to improve average package download reliability and reduce installation times by 60%.
 - Designed interactive showcase website using **Next.js** and **Anime.js**, for showcasing the tool's capabilities through interactive animations.
- TravelEase – Next.js, Supabase, Google Maps API**
 - Developed full-stack trip planning platform with **Google Maps API** integration for route optimization, geospatial queries, and complex multi-waypoint itinerary generation.
 - Optimized API efficiency by implementing selective field queries (name, rating, photo) to minimize payload size by 65%, while adding real-time collaboration features via **Supabase**.

PUBLICATIONS

- Suraj Menon et al.**, “NammaLakes: IoT-Based Real-Time Distributed Lakes Monitoring System,” *International Journal of Latest Technology in Engineering Management and Applied Science*, 2025. [\[DOI\]](#)
Designed distributed IoT architecture with RabbitMQ message queuing and ML-based anomaly detection for real-time water quality monitoring.

CERTIFICATIONS

- The Complete Full-Stack Web Development Bootcamp – Udemy, 2025** [\[View Certificate\]](#)