

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, Amazon Redshift, OpenSearch, Supabase, Firebase, SQLite, Vercel

DevOps & Tools: Git, GitHub Actions, Docker, RabbitMQ, Postman, Wireshark, Grafana, QuickSight, n8n, Jira, Confluence

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.
- Full Stack Developer Intern – Jabsz Gaming Studios** October 2025 - February 2026
 - Led a full UI/UX redesign of the company website, fixing cross-page UI issues, adding animations, and establishing a consistent visual theme across all pages.
 - Migrated the production frontend from **React** to **Next.js (App Router)**, integrating legacy JavaScript and global CSS assets using custom Next.js configuration and build tooling.
 - Migrated the production database from **Firebase** to **Supabase**, porting existing data into a relational **PostgreSQL** schema and rewriting all client-side data access against the new SDK.
 - Improved website performance and SEO by converting all images to **WebP** and leveraging **next/image**, increasing Lighthouse scores from **50 to 90**.
- Forward Deployed Engineer Intern – Plivo** February 2026 - Present
 - Built and shipped an internal automation in **Python** and **n8n**, now used daily by the support team, that queries **Redshift** on ticket creation for a customer's recent call and message history and posts an **LLM-generated** summary, eliminating manual log lookup before triage.
 - Debugged production voice and messaging failures across **Plivo Voice (API/XML)**, SMS, WhatsApp, Verify, Zentrunk SIP trunking, and PHLO, driving root cause analysis with application logs, **OpenSearch**, **Wireshark** PCAP analysis, and **Postman** request replay.
 - Instrumented customer traffic monitoring in **Grafana**, tracking calls-per-second and concurrency trends to catch capacity and rate-limit issues before they surfaced as outages.
 - Primary technical point of contact for enterprise customers across **APAC, EMEA, and the US**, resolving **200+ tickets/month** and partnering with Engineering, DevOps, and Product to close platform bugs, feature requests, and outages.

PROJECTS

- NammaLakes – FastAPI, RabbitMQ, Vite+React, Recharts, ML (Isolation Forest)**
 - Architected distributed IoT system ingesting continuous telemetry 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%.

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 a distributed IoT architecture using RabbitMQ and ML-based anomaly detection for real-time water quality monitoring.

CERTIFICATIONS

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