# 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

**Frameworks/Technologies:** Next.js, React, Tailwind CSS, FastAPI

**Developer Tools:** Git, GitHub, Docker, Postman, Supabase, RabbitMQ

## EXPERIENCE

- **Frontend Developer Intern** – *BharatCrest Pvt. Ltd.* — June 2025 - August 2025
  - Engineered **HRMatcher**, a recruitment platform using **Django** and AI algorithms to automate candidate-company matching, significantly reducing manual screening time.
  - Co-developed **ProfitPal**, a comprehensive inventory management application using **React** and **Python**, enabling restaurant staff to track sales and stock levels in real-time.
  - Collaborated with a team of 3 developers to deploy two major projects to production, ensuring responsive design and cross-browser compatibility.

## PROJECTS

- **TravelEase** – *Next.js, Supabase, Google Maps API* — Website
  - Developed a full-stack trip management platform featuring interactive route mapping and expense tracking for travelers.
  - Integrated **Google Maps API** to build a dynamic mapping interface, enabling users to filter attractions and dining options along specific travel routes.
  - Optimized application performance by streamlining API calls and implementing **Supabase** for secure authentication and efficient real-time database management.

- **NammaLakes** – *FastAPI, RabbitMQ, Vite+React, Recharts, ML (Isolation Forest)* — Website
  - Architected a distributed IoT-based lake monitoring system, utilizing **RabbitMQ** for message queuing and **FastAPI** to process sensor data streams.
  - Designed a responsive dashboard using **Vite** and **Recharts**, employing state management and lazy loading to visualize complex sensor data with minimal latency.

- **Linux Starter Pack** – *Python, Next.js, Tailwind CSS* — Website
  - Built a Terminal User Interface (TUI) tool using **Python (Textual)** that automates the installation of essential software based on the user's Linux distribution.
  - Wrote **Bash** scripts to automatically detect and switch to the fastest download mirrors, significantly reducing package installation time for end-users.
  - Developed a showcase website using **Next.js** and **Anime.js** to demonstrate the tool's capabilities through interactive animations.

## PUBLICATIONS

- [**NammaLakes — IoT-Based Real-Time Distributed Lakes Monitoring System**]. Suraj S. Menon et al. *International Journal of Latest Technology in Engineering Management and Applied Science*, 2025. Link to paper

## CERTIFICATIONS

- **The Complete Full-Stack Web Development Bootcamp** – [Udemy], 2025. — Certificate link