

# SAYAN DAS

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## EXPERIENCE

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### AI-ML Engineer

Jan 2026 – Present

Rezolve Ai

Kolkata, India

- Developing AI agents to deliver personalized customer interactions, improving customer satisfaction by 90%.
- Integrating AI responses with telephony systems and implementing Voice Activity Detection (VAD) to enable real-time conversational AI.

### Backend Developer Intern

Jun 2025 – Jan 2026

Lunar Guide, Inc.

Kolkata, India

- Built scalable backend APIs powering dynamic trip planning and itinerary generation, integrating multiple travel and mapping services to deliver real-time routing and multimodal transport data for 100+ global destinations with sub-second response times.
- Implemented a multi-stage routing pipeline that discovers transit hubs and combines vehicle routes to compute end-to-end travel paths worldwide.

### Full Stack Developer Intern

Jun 2023 – Aug 2023

NIC West Bengal State Centre

Kolkata, India

- Contributed to the development of the **Candidate Expenditure Monitoring System (CEMS)** for the Election Commission of India used during the 2024 General Elections.
- Built role-based authorization for multi-level government officials using the TALL stack.
- Implemented 15+ system features including expenditure logging, monitoring, inspection scheduling, PDF report generation, and interactive data visualization dashboards.

## PROJECTS

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### SpotOn — A Geo-location Based Attendance Management System

- **Tools:** Next.js, React Native, Java, Spring Boot, MySQL
- Integrated geo-location technology to enable precise attendance check-ins within designated areas, reducing proxy attendance by 20% and lowering manual data entry effort for administrators by 80%.
- Adopted by the *Department of Computer Science at Ramakrishna Mission Vivekananda Centenary College, Rahara.*

### Auth Template — An Auth toolkit inspired by Clerk

- **Tools:** Next.js, NextAuth v5 (Auth.js), PostgreSQL
- **Features:** 2FA, Forgot Password, Email Verification, Credential Login, OAuth, User Roles

### MyAIChat — A chatbot interface inspired by ChatGPT

- **Tools:** Next.js, Flask, LangChain, ChromaDB
- **Features:** Model switching, chat history memory, PDF question answering, response feedback

### ShopLens — AI-powered shopping assistant app

- **Tools:** Streamlit, OpenCV, PyTorch
- **Features:** Fine-tuned YOLO model for clothing detection, Fashion-CLIP for clothing recognition, chatbot-style Streamlit interface with image upload

## SKILLS

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**Frameworks:** Next.js, React Native, Laravel, Hono

**Programming Languages:** TypeScript, C, C++, Java, Python, PHP, HTML, CSS (Tailwind), SQL

**Tools:** Git, Docker, ORM (Eloquent, Drizzle, Prisma), Tableau, Linux

**Software:** Figma, Adobe XD, Adobe Illustrator

## EDUCATION

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**Ramakrishna Mission Vivekananda Educational and Research Institute**

Belur, WB

*M.Sc, Computer Science*

*Jul 2024 - Jul 2026*

**Ramakrishna Mission Vivekananda Centenary College, Rahara**

Rahara, WB

*B.Sc, Computer Science*

*Sep 2021 - May 2024*