Sayan Chatterjee

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EXPERIENCE

Web Developer

BlackCoffer (Fulltime)

- **Dec 2024 – present**
- **Data Scientist**
- **Working Remotely**

Janvee Collection (Part-time)

- Feb 2022 - May 2022
  - Developed and managed the company's website remotely.

Projects:

QR_Mover: Developed a Flask-based web application with an adaptive UI for file sharing, featuring drag-and-drop uploads and QR code generation for secure downloads.   **https://qr-mover.onrender.com/**

HomeServer: A Home server setup **on Truenas Scale**, integrating **nextcloud, Jellyfin, Pi-hole, SMB shares,** and **Immich** with **Cloudflare tunnel** and **Tailscale** VPN, providing secure, **centralized media streaming and network management for all connected devices.**
https://nextcloud.cayanidelabs.shop   **https://immich.cayanidelabs.shop**   **https://jellyfin.cayanidelabs.shop**
https://truenas.cayanidelabs.shop

Home Automation IoT System: Using **ESP8266** and **ESP32** controllers with various sensors, this system automates home appliances and optimizes **energy efficiency**, providing remote control, **consumption tracking, and real-time monitoring.**

N-Queens Visualizer: An interactive visual tool for the N-Queens puzzle, using a **backtracking algorithm** to display **real-time solutions** on a chessboard, hosted on **GitHub Pages** with a user-friendly interface. *GitHub Pages:* **https://cayanide.github.io/N-Queens_Visualizer/**

Sentiment Analysis: Developed an AI-powered Sentiment Analysis Web Application to analyze product reviews and generate actionable insights. The project integrates web scraping, natural language processing, and visualization to provide a seamless user experience.   **https://product-sentiment-analysis.onrender.com**

Anime Recommendation System: Developed a REST API-based recommendation system leveraging AniList GraphQL API for anime data. Implemented JWT authentication, PostgreSQL for data storage, and user-specific preferences. Delivered a containerized solution with Docker for seamless deployment. **https://github.com/cayanide/Anime-Recommendation-System**

BetterQuery AI-Powered Query Assistant: Developed a dynamic query generation engine that leverages Flask for the web API, Elasticsearch for data retrieval, and OpenAI's GPT-4 for AI-assisted query creation. Automated index selection and query sanitization to ensure precise and efficient searches. Robust error handling and logging mechanisms to maintain high system reliability.
https://github.com/cayanide/Elastic_LLM_Intregation.git

AdSense Data Fetcher : Developed an automated Python tool to retrieve Google AdSense reports from multiple accounts and consolidate the data for upload to Google BigQuery,implemented secure OAuth2 authentication to seamlessly handle user credentials, enabling unattended, scheduled data extraction after the initial login.Leveraged Google APIs, including the AdSense API and BigQuery API,Designed the system to delete duplicate entries by removing previous day's data before inserting new records, ensuring data accuracy and consistency.Enhanced data-driven decision making by enabling reliable, scalable ingestion of AdSense performance metrics into a centralized BigQuery dataset.
https://github.com/cayanide/Adsense-Data-Fetcher.git

Languages:
C, C++, Java, Python, JavaScript, React, Flutter

Technologies & Frameworks:
ReactJS, Angular, Node.js, Express.js, Django, Spring Boot, Bootstrap,
HTML5, CSS, jQuery

Cloud & DevOps:
Google Cloud, IBM Cloud, GitLab, AWS, Azure, Docker, Kubernetes

Data Management:
Elastic Search,Firebase, MySQL, MS Access, MongoDB, PostgreSQL, SQLite

Development Tools:
Git, Webpack, Docker, Kubernetes

Back-End Technologies:
Node.js, Express.js, Django, Spring Boot

APIs & Protocols:
REST, WebSocket, OAuth

Skills:
Data Structures and Algorithms, Database Handling,
Problem-Solving, Responsive Web Design, Software
Testing, Scripting in Python and JavaScript

Education:

1. **Lovely Professional University**

    Bachelor of Technology - BTech, Computer Science May 2025

2. **Lovely Professional University**

    Diploma of Education, Computer Science 2022   **8.6 CGPA**

Licenses & Certifications
• Application Development using Microservices and Serverless (IBM):
Jul 2024
• Data Structures and Algorithms - Self Paced (GFG) : Jul 2024
• Cloud Virtualization, Containers and APIs (Duke University): Jul 2024
• Spring - Cloud Overview (LearnQuest): Jul 2024
• Deploy Microservices using Spring Cloud Framework (Coursera
Project Network): Jun 2024
• Introduction to Containers w/ Docker, Kubernetes & OpenShift
(IBM): Jun 2024
• The Complete Theory of Computation (Udemy): Nov 2023
• Machine learning, IIT, Bombay : Mar 2023
• Foundations: Data, Data, Everywhere (Coursera): Oct 2021
• CORE JAVA (Internshala): Aug 2021