

Swarnadeep Saha Poddar

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Education

Siliguri Institute of Technology

Bachelor of Technology in Computer Science and Engineering

Aug 2022 – Present

Caesar School, Malbazar

Class XII – CBSE

Aug 2020 – July 2022

St. Xavier's School, Raiganj

Class X – ICSE

Mar 2008 – July 2020

Experience

Full Stack Developer @ Dimension Lab

Aug 2023 – Feb 2024

- Developed production-ready web applications using **React.js**, **Node.js**, **Express.js**, **MongoDB**.
- Implemented secure authentication, optimized API latency, and enabled server scaling for increased traffic.
- Deployed services on **AWS (EC2, S3, IAM)** and container-based workflows using **Docker**.
- Collaborated on **microservice deployment strategies**, load balancing, and environment hardening.

MERN Developer Intern @ IIT Delhi

Dec 2024 – Feb 2025

- Built a scalable Learning Management System (LMS) backend using **Node.js**, **Express**, **MongoDB**, improving API
- Designed role-based authentication (Admin/SuperAdmin) and optimized REST APIs for performance.
- Containerized backend services using **Docker** and deployed automated builds via **GitHub Actions CI/CD**.
- Integrated **system monitoring**, **centralized logging**, and **uptime tracking** with alerting workflows.

Technical Skills

Programming Languages: JavaScript, TypeScript, Python, Java, C, C++, Go

Databases: MongoDB, PostgreSQL, MySQL, Firebase, Supabase, Appwrite, SQLite, Oracle DB SQL

Backend: Node.js, Express.js, Django, RESTful APIs, GraphQL, JWT Authentication, Multer, Prisma

Frontend: React.js, Next.js, TypeScript, JavaScript (ES6+), Tailwind CSS, Framer Motion, Redux, NextAuth

Operating Systems: Linux (Ubuntu, Debian), Windows Server — CLI operations, process management, & VMs

Developer Tools: Postman, Figma, VS Code, Bash, Shell Scripting, Subprocesses Terminus, VMware Workstation

DevOps Tools: Nginx, Docker, Kubernetes, Jenkins, Git CLI, Github CI/CD, Terraforms, Kafka, Redis, Apache Kafka

Cloud Tools: AWS Lambda, EC2, VPC, S3, Google App Engine, Firebase, Google Apis, Azure Blob Storage, Entra ID

Projects

SSPAI-CLI — Node.js, Express.js, MongoDB, JS Threads, Gemini API, OpenAI API

NPM Package

- Built a full-stack AI-powered **Command Line Interface (CLI)** tool offering instant AI assistance directly from CMD
- Enabled seamless switching between **Gemini** and **OpenAI** models with a modular configuration architecture.
- Implemented multi-threaded execution using JavaScript Threads for concurrent task handling and better performance.
- Published as an open-source NPM package with 100+ downloads, featuring color-coded prompts, error handling.

Trip Blueprint — React.js, Node.js, Google Maps API, Google Vertex AI, Tailwind CSS

Live Project

- Developed an intelligent travel planning platform that integrates **Google Maps** and **Vertex AI** to provide real-time route
- Implemented dynamic map rendering with custom markers, live distance calculations, and destination-based insights.
- Designed a responsive and modern UI using **React.js** and **Tailwind CSS**, ensuring seamless usability across devices.
- Optimized API requests for faster data fetching, reducing latency by 40% compared to traditional REST implementations.

SSP Gemini — Tech Stack: JavaScript, Google Gemini API, Google Cloud Platform, Flask Backend

Live Project

- Created a conversational AI assistant leveraging **Google Gemini** to generate real-time, context-aware responses for users.
- Integrated with **Google Cloud Services** for API orchestration, storage, and scalable deployment.
- Built an interactive front-end enabling users to query, visualize, and interpret responses with embedded media cards.
- Designed lightweight architecture for high-performance AI inference, achieving response times under 1.5 seconds.

Achievements and Awards

- Solved 250+ Questions In **Leetcode**
- My Project **Synergy-X** Is Achieved 1st Position In College Internal **SIH 2025**
- My Project **Trip Blueprint** Is Selected As Winner In **Google Saadhna Hackathon Winner**
- Published Article on **Google Cloud Official Medium Blog Page** - [Medium Link](#)
- Served As The **Chapter Lead** of MLSA-SIT, **Cloud Lead** of GDSC-SIT & **Arcade Facilitator** @ G-Cloud
- Contributed & Guided 100+ Student's as **Mentor** In GSoc 24 And JWOC 24