

Swarnadeep Saha Poddar

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Education

Siliguri Institute of Technology <i>Bachelor of Technology in Computer Science and Engineering</i>	Aug 2022 – Present
Caesar School, Malbazar <i>Class XII – CBSE</i>	Aug 2020 – July 2022
St. Xavier's School, Raiganj <i>Class X – ICSE</i>	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 — <i>Node.js, Express.js, MongoDB, JS Threads, Gemini API, OpenAI API</i>	<i>NPM Package</i>
- 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 — <i>React.js, Node.js, Google Maps API, Google Vertex AI, Tailwind CSS</i>	<i>Live Project</i>
- 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 — <i>Tech Stack: JavaScript, Google Gemini API, Google Cloud Platform, Flask Backend</i>	<i>Live Project</i>
- 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 MSLA-SIT , **Cloud Lead** of GDSC-SIT & **Arcade Facilitator** @ G-Cloud
- Contributed & Guided 100+ Student's as **Mentor** In GSoc 24 And JWOC 24