Sankhadeep Chowdhury

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Summary

Full Stack Web Developer proficient in MERN stack, Java, and cloud computing with hands-on experience in AI/ML integrations. Skilled in building scalable microservices, real-time systems, and AI-driven applications on cloud platforms. Strong foundation in data structures, algorithms, and Backend-focused architectures and web design.

Education

Institute of Engineering & Management, Salt Lake 2023 - 9.27 YGPA
Bachelor of Technology, ECE

St. Stephen's School 2023 - 88%
ISC

Skills

- **Languages:** JavaScript, Python, Java, C++
- **Web Development:** React.js, React Native, Node.js, Express, REST APIs, GraphQL, gRPC, WebRTC, HTML/CSS, Tailwind
- **Databases:** MongoDB, MySQL, PostgreSQL, Redis
- **AI/ML & Vector Search:** Mistral 7B, LangChain, Open-source LLMs (Grok), Chroma DB
- **Cloud & DevOps**: AWS (EC2, S3), Git, GitHub, Docker
- **Tools & Platforms:** Postman, VS Code, Figma, Supabase

Experience

Lead Developer — IEM Research Foundation May 2025 – August 2025
NAAC DVV Simulation | *React, Node.js, Express, MySQL*

Projects

Fast-AID | *Node, Express, React-Native, Docker* **|** GitHub

- Architected and implemented real-time ambulance dispatch service using Express JS and PostgreSQL for low- latency location matching.
- Integrated Uber Maps API to geocode and route ambulances within 100ms average response time.
- Designed Realtime channels for live driver/user tracking, scaling to 50 concurrent sessions for MVP.

Doc-Ease | *Typescript, Node.js, React, MongoDB, Chroma DB, Web3, LangChain, Push Protocol, Web Sockets* **|** GitHub

- Developed a real-time doctor-patient platform supporting secure appointment booking, Chabot triage, chat, and video consultations, combining Web2 scalability with Web3 security.
- Built an AI medical assistant using LangChain and open-source LLMs (e.g., Mistral 7B) to suggest doctors or medications based on symptom inputs; backed by Chroma DB for vector search and RAG.
- Engineered appointment scheduling with time slot management, role-based access (doctor/patient), and dynamic availability updates.

Involvements

- **Participated in 6+ hackathon**s (SBH, InnoFusion, Diversion, and Binary Hacks) creating AI, Web3 real-time prototypes **|** Link
- **Member of IEM-GDG** - Explored Google Cloud Platform (GCP) fundamentals and AI/ML concepts through hands-on workshops