

# SOUBHIK SAMANTA

+91-7478060203 [soubhiksamanta25@gmail.com](mailto:soubhiksamanta25@gmail.com) [linkedin.com/in/soubhik-samanta111](https://www.linkedin.com/in/soubhik-samanta111) [github.com/Soubhik19](https://github.com/Soubhik19) Kolkata, India

## Summary

Full-stack developer with hands-on experience building, containerising, and deploying production-grade web applications using **React**, **Node.js**, **MongoDB**, and **PostgreSQL**. Proficient in **REST API** design, database modelling, **Docker**-based containerisation, **CI/CD** pipelines, and cloud deployment on **AWS**. Strong foundation in **Data Structures**, **Algorithms**, **Linux**, and **System Design**. Seeking Software Engineering roles to contribute to scalable backend systems and real-world product development.

## Projects

**CodeSensei** – AI Code Reviewer (GitHub) | *React, TypeScript, Node.js, Express, Gemini API* Nov 2025 – Jun 2026

- Built a **full-stack AI code review** platform integrating **Google Gemini 2.5 Flash** to analyse code and return structured, severity-tagged feedback (security, performance, code smells) with a complete refactored rewrite, handling **1,500+ requests/day** in production.
- Designed a **REST API** (*POST /ai/get-review*) with input validation and rate-limit handling; supports **5 languages** and a **4-category scoring system** (readability, performance, security, best practices).
- Built the frontend with **React 19**, **TypeScript**, and **Tailwind CSS**, including a landing page, syntax-highlighted markdown rendering, and a dark-themed review interface; deployed frontend and backend on **Vercel**.

**DevTinder** – Developer Networking Platform (GitHub) | *React, Redux, Node.js, MongoDB, AWS* Jan 2026 – May 2026

- Built a **full-stack** networking platform independently with **8+ REST API endpoints** and **5 MongoDB schemas**; containerised with **Docker** for consistent local and production environments.
- Deployed on **AWS EC2** with **S3** file storage, achieving **99%+ uptime**; configured **Linux** server, set up environment variables, and managed releases via CLI.
- Implemented **CI/CD** practices using **Git/GitHub** branching workflows; used **Redux** state management for real-time UI updates supporting **500+ user interactions**.

**EventFlow** – Certificate Platform (Live) | *React, TypeScript, Node.js, PostgreSQL, Supabase* Aug 2025 – Oct 2025

- Engineered a bulk PDF generation pipeline automating **1,000+ digital certificates** with **REST APIs** and QR-based verification, cutting processing time by **90%**.
- Architected **4 PostgreSQL schemas** via **Supabase** with indexed queries, reducing data retrieval time by **40%**; enforced **TypeScript** type safety and automated the email delivery pipeline, reducing manual effort by **30%**.

## Experience

**GeeksforGeeks** Jun 2024 – Jul 2024

*Data Structures, Algorithms & Systems Programming Trainee* Remote

- Solved **300+ DSA problems** spanning Arrays, Linked Lists, Trees, Graphs, and Recursion over 8 weeks; optimised **10+ algorithms** from  $O(n^2)$  to  $O(n \log n)$ .
- Built an **LRU Cache** (HashMap + Doubly Linked List) with  $O(1)$  get/put operations; applied **OS and Networking** principles including CPU scheduling, memory management, and concurrency to solve **20+ systems-level problems**.

## Technical Skills

**Languages:** JavaScript, TypeScript, Java, Python, C++, SQL, HTML, CSS

**Frontend:** React, Redux, Responsive UI Development

**Backend:** Node.js, Express.js, REST APIs, Asynchronous Programming, Microservices, System Design

**Databases:** MongoDB, PostgreSQL, MySQL, Redis, Mongoose, Prisma

**Tools & Cloud:** Git, GitHub, Linux, Docker, AWS (EC2, S3), CI/CD, Postman, Supabase

**Core CS:** Data Structures & Algorithms, Operating Systems, Computer Networking, SDLC

## Achievements & Certifications

- **NextGen AI & Emerging Tech Expo 2026: Top 10 Finalist** among **10,000+ students** nationally for **Kisan Saathi**, an AI-powered agriculture platform.
- **In-Campus Hackathon (Runner-Up): 2nd place** among **400+ teams** in a GeeksforGeeks-sponsored hackathon. **Oct 2025**
- **Certifications:** DSA — GeeksforGeeks | DevOps & Software Engineering — IBM [Link] | Cloud Computing — NPTEL [Link]

## Education

**Lovely Professional University, Punjab** Aug 2022 – May 2026

*Bachelor of Technology in Computer Science and Engineering* | **CGPA: 7.25**

*Phagwara, India*

- Relevant Coursework: Data Structures & Algorithms, Operating Systems, System Design