DEBAYAN SEN

SDE-1 — DevOps & Backend Engineer (Blockchain)

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Summary

DevOps and backend-focused Software Development Engineer (SDE-1, DevOps + Blockchain) with experience in Node.js, TypeScript, microservices, containerization (Docker, Kubernetes, Traefik), CI/CD pipelines (GitHub Actions), and infrastructure as code (Terraform). Skilled at designing scalable REST APIs, production-ready services, and cloud-native tooling, with hands-on work on DeFi smart contracts and yield benchmarking.

Education

National Institute of Technology, Agartala — **2020 − 2024**
B.Tech in Electronics & Instrumentation Engineering, CGPA - **7.1** — *Agartala, India*

Hindi HS School, Agartala — **2020**
CBSE Class XII Examination - **78.6%** — *Agartala, India*

Maa Ananda Mayee Vidya Peeth, Agartala — **2018**
CBSE Class X Examination - **83.4%** — *Agartala, India*

Experience

Treflo — **Bangalore**
SDE-1 (DevOps & Blockchain Engineer) — *November 2024 – Present*

- Designing and operating containerized Node.js microservices using Docker, Kubernetes, and Traefik for high-availability DeFi and backend services.
- Owning CI/CD pipelines with GitHub Actions for automated build, test, and deployment, improving release speed and reliability for production services.
- Implementing infrastructure as code (Terraform) and DevOps best practices for reproducible cloud environments, logging, and monitoring.
- Designing schemas and optimizing queries in MongoDB for low-latency backend services and analytics workloads.
- Building P2P verifier clients and Solidity smart contracts for DeFi yield benchmarking and on-chain data pipelines in collaboration with cross-functional teams.
- Recognized as Employee of the Month multiple times for ownership, code quality, and impact on production systems.

GSI NEXT — **Remote**
Backend Developer Intern — *August 2024 – September 2024*

- Developed RESTful Node.js/Express APIs with full CRUD operations for core business entities.
- Containerized the backend using Docker and set up basic CI pipelines with GitHub Actions for automated testing and deployment.
- Designed relational data models in MySQL and optimized queries for reliable, efficient data access.
- Collaborated in an Agile team, participating in stand-ups and code reviews to improve code quality and delivery speed.

PillVeda — **Agartala, India**
React.js Developer — *June, 2023 – September 2023*

- Developed a customer and seller portal using React.js, Redux.js, OAuth 2.0 API, Google People API, Google Maps API, and hooks.

National Institute of Electronics & Information Technology — **Agartala, India**
Summer Intern — *Feb 2022 – July 2022*

- Created Android applications with Java and integrated APIs such as Google Maps API and Google People API.

Projects

React Portfolio Site 🔗 | *React.js, HTML, CSS, JavaScript*

- Developed a portfolio site with React.js featuring a simple UI, animations, and full responsiveness.

To Do App with Node.js Server | *React.js, Node.js, HTML, CSS, Bootstrap*

- Created a to-do app with task storage on a Node.js server using HTTP requests for data retention.

Amazon & Netflix Clone | *React.js, RazorPay API, TMDB API, Firebase, HTML, CSS, JavaScript*

- Developed clones displaying products stored in Firestore DB and dynamic data from TMDB API with persistent login, cart, and payment support.

React User Authentication with MySQL Database | *React.js, Node.js, HTML, CSS, MySQL*

- Built a user authentication system with React.js and Express.js connecting to a MySQL database.

Technical Skills

Languages: C/C++, Python, SQL, JavaScript (ES6+), TypeScript, HTML, CSS
Backend & DevOps: Node.js, Express.js, REST APIs, microservices, Docker, Kubernetes, Traefik, GitHub Actions, Terraform, MongoDB
Web & Frameworks: React.js, Redux.js, Bootstrap, Firebase
Fundamentals: Data Structures & Algorithms, Database Management Systems, Object Oriented Programming
Tools: Git, GitHub, VS Code, Postman
Keywords: DevOps, CI/CD, containerization, cloud-native backend, infrastructure as code, MongoDB, query optimization, indexing, monitoring & observability

Soft Skills

Problem-Solving, **Communication**, **Teamwork**, **Adaptability**

Achievements

- Solved over **300+** DSA questions across various coding platforms & achieved a **4*** rank on CodeChef.
- Achieved a Global Rank of **589** among **12,400** candidates in a global competition (CodeChef Starter-23).
- Earned a Certificate of Recommendation for outstanding performance.
- Earned certificates from **BHEL**, **University of Helsinki** (worth 2 ECTS credits), and Udemy (React.js).

Languages

- English (Fluent)
- Hindi (Fluent)
- Bengali (Fluent)