

Shyam Barua

Software Engineering Intern — B.Tech CSE (2026)
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Professional Summary

Computer Science undergraduate with strong proficiency in **Data Structures and Algorithms using Java** and hands-on experience in building scalable software systems using modern web and backend technologies. Experienced in API development, debugging, and cloud-integrated applications. Seeking an **entry-level Software Developer (IC1)** role focused on backend systems and product engineering.

Technical Skills

Languages: Java (DSA, OOP), JavaScript (ES6+), SQL
Backend & Development: Node.js, Express.js, RESTful APIs, React.js, Next.js, HTML5, CSS3, Tailwind CSS
Databases: MongoDB, MySQL
Cloud: AWS (Cognito, Cost Explorer, IAM, S3, EC2)
Tools: Git, GitHub, Docker, Postman, VS Code
Core CS: Data Structures, Algorithms, Object-Oriented Design, Exception Handling, DBMS, Operating Systems

Experience

Software Engineering Intern Mar 2024 – Aug 2024
Dr. Reach – HealthUnity Solutions Pvt. Ltd. (Remote)

- Designed and optimized production-grade web modules using Next.js, improving page load performance by **30%**.
- Integrated frontend systems with RESTful backend services, handling authentication, API data flow, and error scenarios.
- Collaborated with cross-functional teams to debug issues and enhance features within an existing software architecture.
- Tech Stack:** TypeScript, Next.js, Tailwind CSS, Docker

Projects

Java Inventory Management System GitHub
Core Java, OOP, Collections, File Handling

- Built a menu-driven inventory management system using Core Java and object-oriented principles.
- Implemented complete CRUD functionality with input validation and structured exception handling.
- Enabled persistent data storage using file handling and optimized in-memory operations with Java collections.

Cloud Budget Dashboard – AWS Usage Monitoring Tool GitHub
Next.js, AWS Cost Explorer API, AWS Cognito, Recharts

- Built a real-time dashboard to track AWS service usage and cost insights.
- Implemented secure authentication using AWS Cognito and automated cost retrieval via AWS APIs.
- Added AI-assisted insights to improve cost analysis and decision-making.

Revaa – Event Management Platform GitHub
Next.js, Tailwind CSS, REST APIs, Hostinger

- Developed a production-ready frontend for an event management platform and deployed it on Hostinger.
- Implemented frontend features with third-party API integration for form handling and event workflows.
- Built reusable and scalable UI components and ensured smooth client-server communication using REST APIs.

Education

Bachelor of Technology (B.Tech) – Computer Science and Engineering 2022–2026
Kalinga Institute of Industrial Technology, Bhubaneswar

Certifications

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| • AWS Cloud Practitioner – Foundational | Certificate |
| • Full Stack Web Development Certification | Certificate |
| • Data Structures and Algorithms Certification (Java) | Certificate |

Achievements

- Assistant Coordinator, KIIT Electrical Society
- 2nd Rank, Tech Tank – XIM University