

KUNAL CHAKRABORTY

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OBJECTIVE

Aspiring Software Developer with experience in full-stack development using React, Node.js, and MongoDB. Skilled in building RESTful APIs, working with SQL and NoSQL databases, and programming in Python and Java, with a strong focus on clean code and agile collaboration.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, C

Frontend Technologies: HTML5, CSS3, React.js, Tailwind CSS

Backend Technologies: Node.js, Express.js, RESTful APIs, Socket.IO, Redis

Databases: MongoDB, MySQL, PostgreSQL

DevOps & Tools: Git, GitHub, CI/CD Pipelines, Sentry, API Testing, Debugging

EDUCATION

Brainware University

Masters In Computer Application (CGPA: 8.6)

2024 – 2026

Barasat, West Bengal

The University OF Calcutta

Bechelors In Commerce (CGPA: 8.2)

2020 – 2024

Kolkata, West Bengal

Barasat Mahatma Gandhi Memorial High School

Higher Secondary Education (Percentage: 81%)

2018 – 2020

Kolkata, West Bengal

EXPERIENCE

Full-Stack Developer Intern | IBM Virtual Internship

JULY 2025 – NOV 2025

- Developed and maintained full-stack web applications using **React, Node.js, Express, and MongoDB**, contributing to approximately **60% of core product features** and improving overall system functionality.
- Implemented secure authentication, file uploads, and real-time features using **Clerk, Multer, and Socket.IO**, improving application stability by **35%**.
- Optimized REST APIs and WebSocket communication using **Axios** and performance tuning techniques, reducing average response time by **25%**, while improving production reliability by **40%** through **Tailwind UI and Sentry monitoring**.

Certification: IBM Full-Stack Developer Internship Certificate

Web Developer Intern | Flikt Technology Web Solution

NOV 2025 – DEC 2025

- Created backend services for a Learning Management System (LMS) using **Node.js, Express.js, and MongoDB**, implementing course management, user roles, and progress tracking, improving system efficiency by **40%**.
- Accelerated database queries and RESTful APIs, reducing response time by **30%** and improving overall platform reliability and scalability.
- Minimised background jobs and error handling for LMS workflows, improving system reliability by **30%** and reducing failed operations in production.

PROJECTS

TOOLZEN AI (In Progress) | React, Node.js, Express.js, MongoDB, Gemini AI

- Developing an AI-powered SaaS platform using **React.js** and **Node.js**, integrating **Google Gemini API** to deliver intelligent content generation and automation tools.
- Implemented secure API key management, request throttling, and usage-based limits for Gemini AI, improving system reliability and preventing API abuse by **40%**.
- Optimizing backend performance with **Redis caching**, asynchronous processing, and database indexing to reduce API response time by an estimated **35%**.

INSIDERJob | React, Node.js, Express.js, MongoDB, REST API, JWT, Sentry [LINK]

- Innovated a full-stack job portal platform using **React.js, Node.js, and MongoDB**, enabling job posting, application tracking, and employer-candidate workflows.
- Operated **JWT-based authentication**, role-based access control, and RESTful APIs, while integrating **Sentry** for real-time error monitoring, reducing production errors by **40%** and improving system reliability.

LANGUAGES

Languages Known: English (Fluent), Hindi (Fluent), Japanese (Intermediate), Bengali (Fluent)