

# Niladri Chatterjee

Software Developer | Full Stack Developer | MERN Stack Developer

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## Professional Summary

Experienced Full Stack Developer with 2+ years of hands-on experience in MERN stack, real-time applications, and cloud technologies. Spearheaded migration of legacy e-commerce platform to a serverless architecture using AWS Lambda and DynamoDB, accommodating peak loads of 1,200 concurrent users with two downtime and reducing server costs by 35%.

## Education

Bachelor of Technology in Computer Science Engineering, Bengal College of Engineering and Technology | July 2020 - June 2024

- CGPA: 8.48/10.0

- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Machine Learning, Software Engineering

## Skills

- Programming Languages: JavaScript, TypeScript, Python, SQL, HTML5, CSS3
- Frontend Technologies: React.js, Next.js, Tailwind CSS, Bootstrap, Responsive Design, Progressive Web Apps
- Backend Technologies: Node.js, Express.js, RESTful APIs, Microservices, WebSocket, Socket.IO
- Databases: MongoDB, MySQL, PostgreSQL, Redis, Database Design, Query Optimization
- Cloud & DevOps: AWS (EC2, S3, Lambda), Docker, CI/CD, Git, GitHub Actions, Kubernetes (Basic)
- Authentication & Security: JWT, OAuth 2.0, RBAC, API Security, Data Encryption
- Real-time Technologies: Socket.IO, Liveblocks, WebRTC, Server-Sent Events
- Tools & Frameworks: Git, VS Code, VirtualBox, Linux Commands, Postman, Jira, Agile/Scrum, Test-Driven Development

## Experience

Full Stack Developer | Codecraft Infotech | January 2025 - February 2025

- Enhanced 100+ reusable UI components, increasing development velocity by 40% and maintaining 95% code reusability across projects
- Implemented real-time collaborative features using Liveblocks, supporting 50+ concurrent users with minimum data conflicts

Software Engineering Intern | Code Alpha | June 2024 - September 2024

- Resolved 98% of critical bugs in legacy web application, improving system stability and reducing customer complaints by 60%
- Enhanced UI/UX components using React.js and CSS3, increasing user engagement metrics by 40% and reducing bounce rate by 25%

Full Stack Development Intern | Bharat Intern | June 2024 - July 2024

- Developed money tracker application with advanced filtering and reporting features, improving financial tracking accuracy by 25%
- Built responsive web applications using MERN stack (MongoDB, Express.js, React.js, Node.js) serving 100+ users

## Projects

Real-Time Chat Application | November 2024 – January 2025

Technologies: MERN Stack, Socket.IO, JWT Authentication, Responsive Design

- Developed scalable chat application supporting 200+ concurrent users with real-time messaging and typing indicators
- Achieved 50ms average response time through optimized Socket.IO implementation and efficient database queries

Collaborative Document Editor | September 2024 – October 2024

Technologies: Next.js, Liveblocks, Clerk Auth, TypeScript, Real-time Synchronization

- Built Google Docs-like collaborative editor supporting 100+ simultaneous users with real-time cursor tracking
- Integrated Clerk authentication and role-based permissions, maintaining 99.5% uptime and zero security incidents

Real-Time Video Conferencing App | June 2024 – August 2024

Technologies: Next.js, Stream API, Live Chat, Screen Sharing

- Programmed a high-quality video conferencing app using Next.js, Stream and Clerk, supporting live streaming with 200ms latency
- Integrated real-time chat and screen-sharing functionalities for enhanced virtual meetings, increasing efficiency by 60%

Real-Time Design Tool | March 2024 – April 2024

Technologies: Next.js, React.js, Liveblocks, Version Control

- Implemented an interactive real-time collaboration tool using Next.js, React, and Liveblocks, improving design workflow by 35%
- Deployed object manipulation, version history tracking for improved design workflow and reducing errors by 25%

## Certifications

Docker Training | KodeKloud | February 2025

- Completed hands-on training on Docker CLI, containerization, volumes, and networking

JavaScript | HackerRank | February 2025

- Assessed on advanced JavaScript, algorithms, REST API, Object-Oriented Programming (OOP)

AWS Cloud Practitioner | Amazon Web Services | July 2023

- Gained proficiency in EC2, IAM, S3, billing models, and cloud fundamentals

## Achievements

- Ranked in top 5% on HackerRank with 5-star ratings in C, Python, and JavaScript
- Delivered four full-stack development internships, deploying 3 web applications on time and within budget, while also contributing findings to fix the three biggest causes of crashes in the deployment process
- Elevated collaboration tool adopted by 10+ development teams, improving workflow efficiency by 35%
- Earned an 8.48 CGPA upon graduation, reflecting a sustained commitment to academic rigor; participated in 10+ research projects