

DEBJIT GHOSH

Full Stack Developer — MERN Stack Specialist

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PROFESSIONAL SUMMARY

Full Stack Developer with 1+ years experience in MERN stack and JavaScript technologies. Expertise in scalable web applications, AI integration, and user-focused solutions. Proven ability to improve operational efficiency by 15% through GenAI implementation and cross-functional collaboration.

TECHNICAL SKILLS

Programming Languages: JavaScript ES6+, TypeScript
Frontend Development: React.js, Next.js, HTML5, CSS3, Tailwind CSS, Redux Toolkit, Responsive Design
Backend Development: Node.js, Express.js, RESTful API Development, JWT Authentication, Microservices
Database Management: MongoDB, MySQL, MongoDB Atlas, Database Design, Query Optimization
Cloud & DevOps: Amazon Web Services (AWS EC2, S3, Lambda), Docker, Git, GitHub, CI/CD Pipelines, Vercel, Render
Testing & Quality Assurance: Unit Testing, Integration Testing, Code Review, Quality Assurance Methodologies
Development Tools: Visual Studio Code, Postman, npm, Webpack, Babel

KEY PROJECTS

AI-Powered Content Summarizer | React.js | Node.js | MongoDB | Gemini API [GitHub](#) — [Live](#)

- Built scalable web application with Google Gemini API for intelligent text summarization with customizable length options.
- Implemented MongoDB Atlas integration for persistent history with search, filter, and deletion functionality.
- Developed responsive React UI with Redux Toolkit, Tailwind CSS, and theme toggle for enhanced UX.
- Deployed on Vercel and Render with Controller-Service-Route architecture ensuring scalable backend.

CareConnect Healthcare Management | MERN Stack | JWT | Context API [GitHub](#) — [Live](#)

- Developed healthcare platform with role-based access control for 4 user types (Admin, Doctors, Patients, Receptionists).
- Implemented secure JWT authentication and protected route middle-ware ensuring data security.
- Built appointment booking system with automated scheduling and notification features.
- Created RESTful API endpoints for user management and appointments with comprehensive error handling.

AudioInsights AI Audio Analysis | Chrome Extension | AssemblyAI | Gemini API [GitHub](#)

- Developed Chrome extension for audio capture from browser tabs with real-time playback capabilities.
- Engineered backend pipeline with AssemblyAI for accurate speech-to-text transcription.
- Integrated Google Gemini API with custom AI prompts for comprehensive content analysis.
- Created dynamic dashboard with MongoDB backend for managing analysis reports and cloud storage.

PROFESSIONAL EXPERIENCE

Analyst March 2024 – May 2025
Virtusa Consulting Services Hyderabad, India

- Developed GenAI image moderation systems for Google, improving system accuracy through data analysis and pattern recognition.
- Collaborated with cross-functional teams to optimize business processes, improving operational efficiency by 15%.
- Maintained 100% accuracy in quality assurance tasks while processing 1000+ daily data points.
- Presented analytical findings to stakeholders, contributing to strategic decision-making and project roadmaps.

EDUCATION

Academy of Technology 2019 – 2023
Bachelor of Technology - Electrical Engineering, CGPA: 8.87/10 Adisaptagram, India

Ranaghat P.C High School 2019
Higher Secondary Education, 67.6% Ranaghat, India

CERTIFICATIONS & ACHIEVEMENTS

AWS Cloud Practitioner: Currently pursuing AWS certification.
Python Programming: [Coursera](#)
Generative AI: Completed [AI Fundamentals](#), [LLMs](#), [GitHub](#).