

DEBJIT GHOSH

Full Stack Developer — Cloud Engineer — DevOps Enthusiast

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PROFESSIONAL SUMMARY

Full Stack Developer with 1+ years of experience in MERN stack and cloud infrastructure. Expertise in building scalable web applications with AWS services (EC2, S3, IAM, Lambda), CI/CD pipelines, and modern JavaScript frameworks. Proven track record of improving operational efficiency by 15% through GenAI implementation and automation, with a strong foundation in DevOps practices, system monitoring, and incident resolution.

PROFESSIONAL EXPERIENCE

Software Developer

October 2024 – Present

KGFM Media Prop Firm

Remote

- Optimized backend API performance, reducing data retrieval times by 30% through efficient database querying.
- Collaborated with the team to identify and resolve technical bugs, ensuring stability of the web application.
- Maintained version control protocols using Git, ensuring clean code merges and release management.

TECHNICAL SKILLS

Programming Languages: JavaScript ES6+, Python (Automation), Bash Scripting

Frontend Development: React.js, HTML5, CSS3, Tailwind CSS, Redux Toolkit, Responsive Design

Backend Development: Node.js, RESTful API Development, JWT Authentication, Context API

Database & Storage: MySQL, SSMS, MongoDB, MongoDB Atlas, Database Design

Cloud & Infrastructure: AWS (S3, CloudFront, IAM), Docker, Vercel, Render, Netlify

DevOps & CI/CD: GitHub Actions, GitHub Container Registry, Git/GitHub, Automated Deployments

AI/ML Integration: Google Gemini API, AssemblyAI, AI Model Integration

Development Tools: Visual Studio Code, Postman, npm, Chrome Extension Development

KEY PROJECTS

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 middleware ensuring data security and 99.5% uptime.
- Built appointment booking system with automated scheduling and notification features.
- Created RESTful API endpoints for user management and appointments with comprehensive error handling.

Cloud-Native Portfolio with CI/CD Automation | AWS S3/CloudFront | Docker | GitHub Actions | Python/Bash GitHub

- Deployed React application to AWS S3 and CloudFront, reducing load times by 40% through edge caching.
- Implemented Docker multi-stage builds to optimize image size by 40% and streamlined version control.
- Architected GitHub Actions CI/CD pipeline for automated builds and zero-downtime deployments.
- Enforced security best practices using IAM least-privilege roles, S3 bucket policies, and CloudFront OAI.
- Authored Python and Bash scripts for automated synchronization and post-deployment health monitoring.

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.

EDUCATION

MAKAUT, WB (Formerly West Bengal University of Technology)

2019 – 2023

Bachelor of Technology - Electrical Engineering, CGPA: 8.87/10

West Bengal, India

Ranaghat P.C High School

2019

Higher Secondary Education, 67.6%

Ranaghat, India

CERTIFICATIONS

AWS Cloud Practitioner (CLF-C02): Certification Prep

Python Programming: Coursera

Generative AI: AI Fundamentals, LLMs, GitHub