

Subhranil Dutta

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[LinkedIn](#) | [GitHub](#) | [LeetCode](#)

Education

VIT Bhopal University

Bachelor of Technology in Computer Science and Engineering, CGPA: 8.00/10.0

2022 – 2026

Sehore, Madhya Pradesh

Experience

VIGYAM GBK

Cloud Developer Intern

February 2025 – Present

Remote

- Architected serverless ETL pipelines using **AWS Lambda, Step Functions, and S3**, processing 10,000+ daily records and reducing manual processing time by 80% through debugging and code review
- Developed 5+ cloud-native applications achieving **99.5% uptime** with 25% performance improvement through AWS auto-scaling, software testing, and bug tracking
- Implemented security framework using **AWS IAM, VPC configurations, and encryption protocols**, maintaining zero security incidents with comprehensive documentation
- Led migration of 3 legacy systems to **Docker containers with CI/CD pipelines**, reducing deployment time from 2 hours to 15 minutes

Projects

Real-Time Collaborative Code Editor — React, WebSocket, Node.js, Express

September 2025

- Live: codecollab-frontend-2tai.onrender.com
- Engineered live coding platform using **Socket.IO** and **Node.js**, supporting 50+ concurrent users with sub-100ms latency and role-based permissions
- Integrated browser-based terminal with secure command execution, enabling real-time collaborative debugging across multiple sessions
- Implemented conflict resolution algorithm with comprehensive code review and software testing, ensuring 99.9% synchronization accuracy

Full-Stack Blogging Platform — React, Node.js, MongoDB, Render, Vercel

April 2025

- Live: blogging-platform-far4.vercel.app
- Built full-stack platform with **React SPA** and **RESTful Node.js backend**, implementing JWT authentication serving 20+ users
- Architected MongoDB schema with optimized indexing and AWS S3 media storage, maintaining detailed documentation for rich text editing features
- Deployed with **CI/CD pipelines** achieving 95+ Lighthouse score through rigorous software testing and bug tracking

Derma Vet AI - Veterinary Skin Disease Classifier — React, Tailwind CSS

December 2024

- Live: cheery-buttercream-5da009.netlify.app
- Developed responsive React frontend processing 500+ daily uploads with sub-2 second response time, integrating with TensorFlow CNN model (92% accuracy across 15+ diseases)
- Implemented React-based drag-and-drop interface optimizing model integration; as sole frontend developer, improved prediction delivery speeds by 15%
- Conducted code reviews with cross-functional team of 4 developers using Agile methodology, implementing responsive design with 98% browser compatibility

Technical Skills

Programming: Python, JavaScript (ES6+), C++, Java, SQL, HTML5, CSS3

Web Development: React.js, Node.js, Express.js, RESTful APIs, WebSocket, Socket.IO, Tailwind CSS, Bootstrap

Cloud & DevOps: AWS (Lambda, EC2, S3, IoT Core, CloudWatch), Docker, CI/CD, GitHub Actions

Databases: MongoDB, MySQL, PostgreSQL

AI/ML: TensorFlow, Keras, OpenCV, NumPy, Pandas

Tools: Git, VS Code, REST API Design, Microservices Architecture

Certifications & Achievements

- Full Stack Web Development - 100xdevs Cohort Zero to 100 Program (2024)
- HTML, CSS, JavaScript for Web Developers - Johns Hopkins University via Coursera (2024)
- Flipkart GRIID 6.0 Robotics Challenge - Led team to qualify (Top 20% of participating teams)