Md Hasibul Islam Shanto

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Professional Summary

Software Engineer transitioning into DevOps, with a full-stack background shipping production web applications. Skilled in automating CI/CD pipelines, containerizing and orchestrating services for consistent deployments, and provisioning cloud infrastructure as code to make releases faster and safer. Focused on removing manual deployment steps, catching issues before they reach production, and building systems that scale cleanly.

Technical Skills

CI/CD & DevOps Tools: Jenkins, GitHub Actions, SonarQube, Trivy, Linux (Ubuntu), Git

Cloud & Infrastructure: AWS, Terraform, Ansible

Containerization & Orchestration: Docker, Kubernetes, Docker Compose, Ingress NGINX, Helm, ArgoCD

Languages & Frameworks: JavaScript, TypeScript, Python, SQL, Bash, React.js, Next.js, Node.js, Express.js

Database & Messaging: PostgreSQL, MongoDB, Redis, RabbitMQ

Experience

Front-End Engineer Jan 2024 – June 2026

Universal Machine Inc. *Remote*

- Developed a carbon credit management platform to manage methodology creation, project setup, and inventory using Next.js, React.js, TypeScript, Jotai, and Tailwind CSS.
- Contributed to a Minipay wallet-based application serving 200K+ users, implementing smart contract interactions with Ethers.js and secure wallet authentication using RainbowKit.
- Built RESTful APIs using Node.js and Express.js, managed database models with PostgreSQL and Prisma ORM, and improved frontend performance through lazy loading, code splitting, and image optimization.
- Implemented CI/CD pipelines using GitHub Actions to automate testing and linting on pull requests and trigger deployments on merge, preventing broken code from reaching production.

Projects

OrderFirst (Microservices & Jenkins CI/CD) GitHub

Docker, Jenkins, RabbitMQ, Nginx, PostgreSQL, React

- Decoupled a monolithic restaurant reservation platform into 6 containerized microservices communicating via RabbitMQ event streams and protected by PostgreSQL btree_gist exclusion constraints.
- Built a declarative Jenkins monorepo CI/CD pipeline evaluating git diff to run selective tests and Docker builds, and configured zero-downtime rolling container updates via Docker Compose.

Serverless URL Shortener (AWS & Terraform IaC) GitHub

AWS (Lambda, API GW, DynamoDB, S3), Terraform, GitHub Actions

- Provisioned AWS infrastructure (Lambda, API Gateway, DynamoDB, S3, CloudFront) using reusable Terraform modules.
- Implemented remote state locking and automated testing, planning, and deployment through GitHub Actions.

DevTalk (CI/CD, SonarQube & Trivy) GitHub

Jenkins, SonarQube, Trivy, Docker, Next.js, Node.js

- Engineered an automated push-to-deploy Jenkins pipeline triggered by GitHub webhooks to test, scan, build, and deploy multi-container Docker Compose applications.
- Integrated SonarQube static code analysis and Trivy container vulnerability scanning into pipeline stages, preventing builds from shipping with known CVEs or code quality regressions.

Certifications & Achievements

Blockchain Olympiad 2023 (Top 10 Finalist): Built a private blockchain solution using Hyperledger Fabric and represented Bangladesh at the International Blockchain Olympiad.

IEEE ICCIT 2023 (Published Author): Co-authored a paper on blockchain-driven agriculture transparency (Doc. ID 10441096).

Docker — Hands-on Containerization (2026), Escbash Labs — multi-stage builds, volumes, Compose orchestration, health checks. Verify

Education

Shahjalal University of Science and Technology Sylhet, Bangladesh

B.Sc. in Computer Science and Engineering (CGPA: 3.35/4.00) *Jan 2019 – Feb 2024*