# Amit Kumar

Backend & DevOps Engineer

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## PROFESSIONAL SUMMARY

Backend-focused engineer with hands-on experience building and containerizing full-stack web applications using Node.js, MongoDB, and React. Strong understanding of REST API design, Linux-based development environments, Docker multi-stage builds, reverse proxy architecture, and CI/CD automation with GitHub Actions. Experienced in designing production-style container workflows with secure environment configuration and internal service networking. Seeking backend-focused roles with exposure to DevOps practices and scalable system design.

## TECHNICAL SKILLS

- **Backend:** Node.js, Express.js, REST APIs, JWT Authentication, MVC Architecture
- **DevOps:** Docker, Kubernetes, Nginx, CI/CD Basics, Reverse Proxy
- **Databases:** MongoDB, Schema Design, CRUD Operations
- **Systems:** Linux (Ubuntu/CentOS), Git, GitHub, Shell Basics, Debugging

## PROJECTS

### Shopify Docker – Fullstack E-Commerce with CI/CD

GitHub: https://github.com/amiitdev/shopify-docker

- Built full-stack e-commerce application using React (Vite) and Node.js with MongoDB
- Implemented multi-stage Docker builds for optimized production images
- Configured Nginx reverse proxy to securely route `/api` traffic to internal backend container
- Designed internal Docker networking with isolated backend (not publicly exposed)
- Added container health checks and runtime environment configuration
- Implemented GitHub Actions CI/CD pipeline to automatically build and push Docker images to Docker Hub on every push to `master`

### Dockerized Production Deployment Workflow

- Separated build-time and runtime configuration using Docker ARG and ENV
- Validated production images by pulling from Docker Hub and running in isolated Docker network
- Eliminated CORS issues using reverse proxy architecture instead of hardcoded backend URLs
- Managed container lifecycle, port mapping, and networking manually to simulate production environment

## EXPERIENCE

Independent Software Engineering & DevOps Practice

2025 – Present

- Designed and developed full-stack applications using React, Node.js, and MongoDB with production-ready architecture
- Implemented containerized environments using Docker and Docker Compose with multi-stage builds and internal networking
- Built automated CI/CD pipelines using GitHub Actions to build and publish Docker images to Docker Hub
- Configured Nginx reverse proxy setups and health monitoring for backend services
- Practiced Linux-based development workflows including process management, networking, and service configuration
- Troubleshot and resolved cross-layer issues involving application code, container networking, and runtime environments

## EDUCATION

Bachelor of Technology in Electrical Engineering

## ADDITIONAL INFORMATION

- Strong system-level thinking and backend problem-solving skills
- Comfortable with backend-heavy and infrastructure-focused roles
- Open to Backend Engineer, DevOps Engineer, Platform Support positions