

MuhammadOmar Akbar

Software Engineer | Full Stack Developer | DevOps Engineer

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Summary

Software Engineer with nearly 2 years of professional experience building full-stack applications microservices and scalable backend systems. Skilled in Node.js, TypeScript, Next.js, FastAPI, PostgreSQL, Redis, RabbitMQ Docker, Kubernetes, Terraform, CI/CD, and cloud technologies. Strong focus on automation, security, observability, accessibility, testing, and cost optimization. Linux user for 3+ years and currently a final-year Bachelor of Software Engineering student

Technical Skills

Backend Engineering, APIs & Databases: Node.js, Express.js, FastAPI, JavaScript ,TypeScript, Python, REST APIs, GraphQL, WebSockets, Socket.io, MongoDB, PostgreSQL, Redis, RabbitMQ, JWT, OAuth2, Prisma, TypeORM, Zod, Async programming
DevOps, Cloud & Infrastructure: AWS (EKS, ECS, EC2, S3, VPC, IAM, CloudFront), DigitalOcean Kubernetes (DOKS), Docker, Kubernetes, Helm, ArgoCD, Terraform, GitHub Actions, CI/CD, Nginx, Vercel, Docker Hub, Linux (Fedora, Ubuntu), SonarQube
Cloud Networking, Observability & Security: VPC Peering, AWS Lambda, AWS CloudWatch, Origin Access Control (OAC), IAM, Secrets Management, Load Balancing, Container Security, Kubernetes Networking, Cost Optimization, Prometheus, Grafana, Metrics Collection, Alerting, Application Monitoring.
Frontend Development: React.js, Next.js, Redux Toolkit, Zustand, Tailwind CSS, ShadCN UI, Framer Motion, Accessibility.
AI & LLM Development: OpenAI API, LangChain, Retrieval-Augmented Generation (RAG), Prompt Engineering, N8n
AI Productivity Tools: GitHub Copilot Pro, ChatGPT, Claude, Gemini, DeepSeek

Projects

MerryGit (microservices) Platform (Cloud / DevOps Project)

- Terraform, DigitalOcean Kubernetes, Docker, Helm, GitHub Actions, Prometheus, Grafana, ArgoCD, Kubernetes, Docker Hub*
- Designed and deployed cloud-native microservices infrastructure using Terraform and DigitalOcean Kubernetes.
 - Containerized Node.js and Python services using Docker and deployed them on Kubernetes.
 - Managed Kubernetes resources using raw YAML on a local Docker Desktop cluster, then migrated manifests to Helm charts for reusable, parameterized, and environment-specific deployments while reducing configuration duplication.
 - Built CI/CD pipelines using GitHub Actions for automated testing, type-checking, Docker image builds, publishing images to Docker Hub, deployments to DigitalOcean Kubernetes by triggering updates on main branch merges.
 - Implemented monitoring and observability using Prometheus and Grafana for cluster and application metrics.
 - Configured GitOps workflows using ArgoCD for continuous synchronization between repo and Kubernetes clusters.
 - Managed Kubernetes ConfigMaps, Secrets, Services, LoadBalancers and configurations across multiple microservices.
 - Applied infrastructure automation, cloud security, observability, and cost optimization throughout the full platform lifecycle.

MerryGit (microservices) Privacy-Focused Real-Time Communication Platform

- Next.js, TypeScript, Node.js, Express.js, FastAPI, MongoDB, Redis, RabbitMQ, Socket.IO, Docker, Cloudinary*
- Built a full-stack real-time messaging platform from scratch using a microservices architecture.
 - Developed a Next.js frontend with TypeScript, Redux Toolkit, Tailwind CSS, and Socket.IO.
 - Implemented JWT authentication, user management, profile management, real-time messaging, authentication & authorization.
 - Built a dedicated chat microservice for WebSocket communication, media uploads, and group messaging.
 - Developed an asynchronous email microservice using FastAPI, RabbitMQ, and Resend API.
 - Integrated Redis caching and RabbitMQ event-driven communication for improved scalability and service decoupling.
 - Designed privacy-focused messaging workflows including message expiration and automated cleanup mechanisms.
 - Containerized services using Docker and deployed them on Kubernetes.

Experience

- Software Engineer (Full Stack Developer) • Remote • Devsort (Islamabad, Pakistan) Jul 2024 – Nov 2025**
- Developed and maintained full-stack applications using Node.js, React.js, PostgreSQL, Redis, and RabbitMQ.
 - Built backend APIs and frontend features in an Agile/Scrum development environment.
 - Performed code reviews, pull request validation, and pair programming to improve code quality.
 - Contributed to CI/CD workflows using GitHub Actions and SonarQube and delivered production features in a team.

- Frontend Developer Intern • Remote • DotWeb Agency (Sheridan, Wyoming, USA) May 2024 – Jun 2024**
- Developed responsive user interfaces using React.js and modern UI libraries.
 - Built reusable, production-ready frontend components for enterprise software applications.
 - Collaborated with design and development teams to deliver high-quality user experiences.

Education

Islamia University of Bahawalpur
Bachelor of Software Engineering

Oct 2023 – Expected Graduation: May 2027
Bahawalpur, Pakistan