Umer Farooq

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# **PROFESSIONAL SUMMARY**

Senior Software Engineer & DevOps Specialist with 6+ years of experience in software engineering, DevOps, and infrastructure management. Expertise in designing scalable microservices architectures, full-stack development (MERN stack, Python, Golang), and implementing CI/CD practices. Proficient in various databases and cloud technologies, with a focus on AWS services.

# **PROFESSIONAL EXPERIENCE**

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| Jan 2023 - Present | **Senior Software Engineer / DevOps, Kaleidoscope**   * Led development of HypergraphTM platform, providing end-to-end observability across operational sources * Implemented crawlers for AWS services (S3, IAM) metadata retrieval and analyzers for security insights * Utilized AWS Go SDK, Redux, and Cytoscape for complex data visualization and state management * Implemented ETL job stages using Golang's goflow package for efficient long-running tasks * Integrated Keycloak for SSO and authentication, enhancing security and user experience * Managed CI/CD pipelines using GitHub Actions and Jenkins for multiple repositories * Orchestrated microservices deployment on Amazon EKS, utilizing GitHub Container Registry |
| Mar 2020 - Jan 2023 | **Senior Software Engineer, TheMoonShotFactory (CrownBio Project)**   * Developed and maintained Crownlink Saturn Application for laboratory test data management in the biotech domain * Implemented AWS services including DynamoDB, AppSync, Lambda, Cognito, and CloudFront * Created data pipelines using AWS Glue, S3, SQS, and SNS for analytics and event processing * Utilized AWS DAG for managing ETL jobs and visual representation of data pipelines * Implemented event-based invocation on Lambda functions for real-time processing * Developed a Django application integrated with Amazon SQS and AWS Redshift for real-time message processing |
| Sep 2018 - Mar 2020 | **Full Stack MERN Developer, Veeve.io**   * Developed Veeve Smart Cart technology for grocery retailers, enabling scan-and-go shopping experiences * Implemented weight sensor and product scanner integration for accurate cart management * Created a product recommendation system based on current store inventory and user selections * Integrated Stripe payment gateway for secure transactions * Utilized Redis for caching and MongoDB Change Streams for real-time updates and cache invalidation * Implemented comprehensive unit tests covering positive and negative edge cases |

# **SKILLS**

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| JavaScript / TypeScript | React.js / Redux | Node.js / Express.js |
| Python / Django | Golang | AWS Services |
| Docker / Kubernetes | CI/CD (Jenkins, GitHub Actions) | MongoDB / PostgreSQL |
| GraphQL / REST APIs | Microservices Architecture | DevOps Practices |

# **EDUCATION**

Bachelor of Information Technology

Government College University Faisalabad, 2016 - 2020

* Graduated in top 10% of class
* EU Blue Card eligible degree

# **CERTIFICATIONS**

* AWS Certified Solutions Architect - Associate (2023)
* AWS Certified Developer - Associate (2023)
* AWS Certified DevOps Engineer - Professional (2023)

# **PERSONAL PROJECTS**

Animated Backgrounds for React

* React package for customizable animated backgrounds
* Published on npm with documentation

FoodShare Web Application

* Full-stack app for sharing food with people in need
* Used React, Node.js, and Google Maps API

# **DEPLOYMENT PROJECTS**

Deployed Applications on Private VPS

* Deployed Python applications from scratch using Nginx and Caddy
* Deployed Next.js, React, and Express.js applications on VPS
* Configured and managed server environments for optimal performance
* Ensured secure and scalable deployment processes