

MUHAMMAD SAAD

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OBJECTIVE

Versatile and impact-driven Cloud & DevOps Engineer with a proven track record in building scalable infrastructure, optimizing cloud cost, and leading AI-powered platform development. Skilled in AWS, GCP, Azure, Terraform, Kubernetes, and automation of cloud-native architectures. Now seeking to contribute to enterprise-scale modernization and AI-driven infrastructure solutions at the intersection of cloud and innovation.

EDUCATION

Bachelor in Software Engineering, UET Taxila 2018 - 2022

SKILLS

Languages & Backend	Python, Node.js, Django, Express, Rust
Cloud Platforms	AWS, GCP, Azure
DevOps & Tools	Docker, Kubernetes, Terraform, Helm, Prometheus, Grafana, Datadog
Infrastructure & SRE	Linux, CI/CD, Monitoring, Logging, IaC
Web & Misc	HTML, CSS, JavaScript, Firebase, MongoDB
Soft Skills	Team collaboration, Ownership, Bias for action, Results-oriented

EXPERIENCE

Co-Founder & CTO Oct 2024 - Present
VR Buddy - AI-Powered Vehicle Marketplace - vrbuddy.co Doha, Qatar

- Spearheaded the development of an **AI-powered platform** for buying and selling vehicles, including intelligent search and recommendation features using OpenAI-based models.
- **Designed cloud-native architecture plans** with future integration of Microsoft Azure services, including AKS, Azure Cognitive Services, and Azure SQL, to support scalability, AI workloads, and secure infrastructure.
- Developed and deployed the **minimum viable product (MVP)** that led to **selection at Web Summit Qatar 2024**, gaining visibility among global investors and tech leaders.
- Built an **AI-driven chatbot** to assist users in navigating car listings and financing queries, demonstrating practical implementation of NLP and user-centric design.
- Led hiring and technical training of interns across multiple geographies, establishing a scalable onboarding and mentorship pipeline to support future growth.
- Created **technical roadmaps, system architecture diagrams, and migration plans** for transitioning to a full-scale hybrid cloud infrastructure using containerized services and secured network layers.
- Authored the company's **business plan, growth strategy, and revenue model**, incorporating a vision for B2B SaaS, advertising, and enterprise data services.
- Oversaw cross-functional collaboration across product, design, marketing, and engineering teams to align infrastructure goals with business outcomes.

- **Architected and led the development** of “**XC3**”, a cloud cost optimization product that improved cloud operational efficiency by 25% and reduced infrastructure costs by **30%** for enterprise clients.
- Collaborated with cross-functional teams to **design scalable, secure cloud architectures across GCP and AWS**, with roadmap considerations for **Azure** integration for multi-cloud clients.
- Migrated legacy workloads to containerized environments using **Docker and Kubernetes**, aligning with the **6R strategy** to modernize critical applications.
- Designed and deployed **high-availability Ubuntu clusters**, maintaining infrastructure components such as HashiCorp Vault, Redis, and nginx-ingress within Kubernetes to support production reliability.
- Built **custom Grafana dashboards** with real-time cloud metrics using HTML, JS, and API Gateway, enhancing visibility into infrastructure health and enabling proactive incident response.
- **Implemented secure networking and authorization strategies**, including VPC design, encryption at rest and in transit, and refined network segmentation for compliance-ready cloud deployments.
- Successfully migrated EC2-based production workloads (Linux1 → Linux2) with **zero downtime**, and introduced SLO-driven monitoring for an IoT-based infrastructure platform.
- **Led technical workshops and solution reviews** for customer DevOps teams, translating infrastructure requirements into scalable deployment plans and sharing best practices.
- Developed robust CI/CD and automated alerting pipelines to support application modernization efforts with a focus on resiliency, cost-efficiency, and compliance.
- Provided strategic input into cloud governance, logging, and resource optimization—preparing clients for future AI/ML integration into infrastructure services.
- Implemented secure and reliable logging practices at the production level.
- Improved service level objectives (**SLOs**), visibility, and alerting for IoT-based cloud infrastructure.

PROJECTS

XC3 – Cloud Cost Control Platform

An open-source tool to automate multi-cloud cost optimization across AWS and GCP.

Company: Xgrid — **Role:** Project Lead / Senior Software Engineer — [Link](#)

Tech Stack: Python, Terraform, Kubernetes, AWS, GCP, Grafana, Prometheus, Docker, Linux

- **Led end-to-end development** of **XC3**, an open-source cloud cost optimization platform designed to reduce cloud spend and improve operational efficiency across multi-cloud environments.
- Engineered core backend modules to **analyze usage metrics, recommend cost-saving actions, and automate governance policies** across GCP and AWS accounts.
- Designed and deployed **Kubernetes-based infrastructure** with production-grade monitoring, logging, and security controls, supporting real-time visibility via **custom Grafana dashboards**.
- Integrated **Terraform modules** to support cloud resource provisioning, and introduced automated anomaly detection mechanisms for budget spikes and underutilized assets.
- Collaborated cross-functionally to contribute to the platform’s **open-source launch**, contributing blog content, documentation, and presentations for internal and external stakeholders.
- Platform achieved a **25–30% cost reduction** for clients and has been adopted as a strategic tool by enterprise DevOps teams to enforce FinOps best practices.

S3 Intelligent-Tiering Implementation

Company: Xgrid — **Role:** Cloud Engineer / DevOps Engineer

Tech Stack: AWS S3, AWS CLI, Python (Boto3), Terraform

- Implemented **Amazon S3 Intelligent-Tiering** on production and development buckets to **optimize storage costs** without impacting data retrieval performance.
- Automated lifecycle policies and tier transitions using **Terraform modules**, ensuring consistent and repeatable infrastructure provisioning.
- Developed **custom IaC templates** to manage S3 bucket configurations, lifecycle rules, versioning, and logging, streamlining cross-environment deployments.
- Integrated **monitoring** and **logging** with AWS CloudWatch and S3 Storage Lens to track tier transitions and optimize future data storage strategies.
- Documented best practices and created reusable scripts/templates for applying Intelligent-Tiering across multiple environments.

Game-2048 Deployment using AWS EKS

Multi-Account AWS Infrastructure Deployment with Terraform

Company: Xgrid — **Role:** Project Lead / Senior Software Engineer

Tech Stack: AWS, Terraform, EKS, EFS, RDS (Aurora PostgreSQL), Client VPN, AWS Load Balancer, Container Insights, Helm, kubectl

- Designed and deployed a **multi-account AWS infrastructure** using Terraform, separating network and workload responsibilities for better scalability and security.
- Provisioned network account modules including **VPC**, **Client VPN**, and integration-ready configuration for **Transit Gateway**.
- Built a workload account that included **Amazon EKS**, **EFs**, and **Aurora PostgreSQL (RDS)** using modular, reusable Terraform code.
- Automated deployment of core Kubernetes components on EKS including:
 - metrics-server** for resource monitoring
 - sealed-secrets** for secure secrets management
 - AWS Load Balancer Controller** for ingress routing
 - Container Insights** for advanced observability
- Successfully deployed and validated workloads:
 - Game 2048** web app
 - pgAdmin** for PostgreSQL management
- Verified full-stack functionality: VPN connectivity, pgAdmin login, PSQL access, and successful application availability over the internet.
- Documented the full setup process in a well-structured **README.md**, and submitted source code via GitHub as part of infrastructure validation and handover criteria.

Bloom Social – Social Networking Web App

Role: Co-Founder & Backend Developer — [Link](#)

Tech Stack: React, Firebase, Firestore, Tailwind CSS, JavaScript

- Built a lightweight social web application with user registration, profile management, and real-time user interactions.
- Implemented Firebase Authentication for secure login/signup workflows, and integrated Firestore for real-time user data updates.
- Designed a modern, responsive UI using React and Tailwind CSS, optimized for seamless performance across desktop and mobile devices.

- Structured the app with modular React components and clean routing, enabling scalability and future feature expansion.
- Deployed the application via Firebase Hosting, ensuring global availability and minimal latency.

CERTIFICATIONS

- Microsoft Azure Fundamentals: Describe cloud concepts - [Link](#)
- Solutions Architect Associate - AWS. [Link](#)
- Professional Cloud Developer - Google Cloud. [Link](#)
- Associate Cloud Engineer - Google Cloud. [Link](#)
- Google Cloud Skills Boost Profile - [Link](#)
- 100 Mentorship Minutes - adplist.org - [Link](#)

TECHNICAL ACHIEVEMENTS

- **Web Summit Doha 2024 Selection - VR Buddy** - [Link](#)
- **Open-Sourced XC3 - Cloud Cost Control** - [Link](#)
- **DevOps Mentor** - ADPList.org - [Link](#)
- Credly Profile - [Link](#)
- **Mastering Proactive Incident Detection with a Killer Monitoring Strategy** - Blog - [Link](#)
- **Managing Cloud Costs with Open Source Solution XC3** - Webinar on YouTube - [Link](#)
- **The Key to Business Transformation: Real-Time IoT Insights** - Webinar on YouTube - [Link](#)
- Google Developer Student Club **Tech Lead** - UET Taxila
- Microsoft Learning Student Ambassador - **MLSA - Mentor**