

Muhammad Junaid Ikhlaq

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Overview

Senior Full Stack Engineer and Cloud Solution Architect with 5+ years of experience designing scalable cloud-native and microservice-based platforms. Experienced in Kubernetes deployments, distributed systems, multi-tenant SaaS architectures, and identity & access management systems (SSO, SAML, RBAC). Proven track record delivering end-to-end solution architecture, backend API systems, and DevOps-driven cloud deployments on AWS and containerized infrastructure. Strong background in platform engineering, hosting systems, and high-availability service design.

Professional Experience

Senior Full Stack Software Engineer / Solution Architect

Oct 2023 – Present

Septem Systems

Remote

- Led development of multiple cloud-based applications using Vue.js, NestJS, and MERN stack
- Designed scalable backend and microservice architectures with modular service boundaries and API-first design
- Implemented authentication and authorization flows using Auth0, RBAC, SSO, and SAML
- Delivered full-stack cloud-native solutions from requirements through architecture design and production deployment
- Conducted code and design reviews to improve code quality and maintainability
- Prepared DevOps and Git onboarding guides for new engineers
- Worked directly with clients to translate business requirements into technical solutions
- Provided architecture and implementation recommendations during the planning phase

Full Stack Software Engineer

Jan 2022 – Sept 2023

Devsinc

Lahore, Pakistan

- Participated in AWS cloud migration and infrastructure redesign initiatives
- Designed and implemented Kubernetes-based microservice architecture and container orchestration deployments
- Containerized services and defined deployment patterns across environments
- Built and maintained CI/CD pipelines for containerized microservices delivery
- Contributed to high-availability cloud infrastructure setups
- Integrated ML model training workflows into Kubernetes-based execution environments
- Worked on a HIPAA-compliant healthcare platform with secure data handling requirements
- Collaborated with stakeholders to design scalable and cost-aware cloud solutions
- Supported migration rollout and production stabilization activities

Software Engineer

Nov 2020 – Dec 2021

Bolt Reactor

Islamabad, Pakistan

- Developed and maintained production web applications using Django, React, Redux, and Material UI
- Improved backend performance through query and data access optimizations
- Built automated data scraping and processing pipelines
- Performed testing and debugging across multiple modules
- Conducted internal workshops and peer learning sessions
- Contributed to application stability and maintainability improvements

Education

Bachelor of Science in Computer Science

National University of Computer and Emerging Sciences

2014 – 2018

Platform & Architecture Projects

Bigsoots — Hosting & Domain Platform Re-Architecture

- Played a leading role in re-architecture of hosting and domain management platform
- Defined service decomposition for hosting lifecycle, domain operations, and monitoring
- Designed Kubernetes deployment topology, service scaling, and high-availability patterns
- Architected identity and federation layer using Auth0 with SSO/SAML integration
- Established async job processing patterns using BullMQ for operational workflows
- Defined infrastructure edge integration using Cloudflare services

OpenGate Cloud — LLM Training Platform

- Designed distributed microservice-based architecture for LLM training platform
- Defined service boundaries for compute orchestration, storage, and job execution
- Architected Kubernetes deployment model for distributed training workloads
- Designed object storage integration using Minio for scalable artifact handling
- Built scalable backend APIs and control services for model lifecycle management

Ultahost — Hosting & Billing Platform

- Designed multi-tenant hosting and billing platform architecture
- Designed a multi-tenant database schema and domain model for subscription and service lifecycle
- Defined RBAC-based access model across tenant and admin layers
- Designed payment and billing workflow architecture across multiple providers
- Integrated infrastructure orchestration with Proxmox-based provisioning flows
- Built backend service layer for subscription, invoicing, and order orchestration

Audi Multi-Touch Table — Interactive Visualization Platform

- Designed backend integration architecture for kiosk-based 3D visualization system
- Defined service communication between the Electron client, the Unreal Engine layer, and APIs
- Led AWS infrastructure migration for improved scalability and deployment control
- Supported feature architecture and backend service extensions

KangarooHealth

- Contributed to the architecture of HIPAA-compliant mobile and web platform
- Implemented secure data handling and access control patterns
- Designed API integration patterns between devices, labs, and provider systems
- Supported compliance-driven architecture constraints

Technical Skills

Frontend	React, Redux, Vue.js, Next.js, Nuxt.js, Material UI, Tailwind, TypeScript, JavaScript, HTML, CSS
Backend	NestJS, Node.js, Express.js, Django, REST APIs, GraphQL
Cloud & DevOps	AWS (EC2, S3, RDS, Lambda), GCP Docker, Kubernetes, CI/CD, Jenkins, GitHub Actions Terraform, Load Balancing, Proxmox
Architecture & Platforms	Microservices, Distributed Systems, Multi-Tenant SaaS Systems Hosting Platforms, Authentication Architecture (SSO/SAML/RBAC), Scalable API Design
Databases	PostgreSQL, MySQL, MongoDB, TypeORM