

Asim Abdalla

Tech Lead | Senior Software & Platform Engineer

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PROFESSIONAL SUMMARY

Senior software and platform engineer with 7+ years designing, building, integrating, and operating secure, high-availability applications and multi-tenant SaaS platforms. Hands-on across backend development in PHP/Laravel and TypeScript/Node.js, REST APIs, relational data modelling, asynchronous processing, cloud infrastructure, and production support. Leads architecture, code review, release quality, and the full software development lifecycle. Operates platforms processing approximately 4M HTTP requests and 12M+ WebSocket connection sessions per day, and led an AWS-to-GCP production migration with approximately 20 minutes of downtime.

TECHNICAL EXPERTISE

Backend Engineering	PHP, Laravel, Laravel Octane, TypeScript, Node.js, JavaScript, Python, RESTful APIs, web services, external-system integrations
Architecture & Quality	OOP, SOLID principles, design patterns, event-driven systems, microservices, multi-tenancy, system design, code review, unit and integration testing, SDLC, technical documentation
Data & Messaging	PostgreSQL, MySQL, SQL, schema design, query optimisation, Redis, SQS/SNS, Meilisearch
Cloud & Delivery	GCP, AWS, Cloudflare, Kubernetes/GKE, Docker, Terraform, Argo CD, Jenkins, GitLab CI/CD, GitHub Actions
Security & Reliability	Keycloak SSO, tenant isolation, Linux, Nginx, observability, autoscaling, health checks, incident analysis, production troubleshooting

PROFESSIONAL EXPERIENCE

The String — Tech Lead | Apr 2025 – Present

Riyadh, Saudi Arabia

- Own architecture decisions, engineering standards, code-review quality, release direction, technical roadmap, mentoring, and hiring across backend, infrastructure, realtime, and AI product lines.
- Lead end-to-end delivery of secure multi-tenant SaaS capabilities from requirements and system design through implementation, testing, deployment, production support, and corrective action.
- Operate a production platform spanning GCP/GKE and Cloudflare edge services with GitOps delivery, autoscaling, tenant isolation, and end-to-end observability.
- Delivered a tenant-aware AI assistant using Vertex AI and Vertex Vector Search, integrating retrieval-augmented generation and external services across customer workspaces.

The String — Senior Software Engineer & DevOps Engineer | Dec 2022 – Mar 2025

Riyadh, Saudi Arabia

- Designed and maintained backend services, REST APIs, relational schemas, asynchronous workflows, and third-party integrations for a multi-tenant lead-management and marketing platform.
- Migrated production workloads from AWS to GCP with approximately 20 minutes of downtime, coordinating application, database, DNS, queue, and infrastructure cutover.
- Architected tenant isolation, wildcard-subdomain provisioning, and SQS/SNS-backed processing; operated Keycloak SSO and Meilisearch across development, staging, and production.
- Provisioned GKE environments with Terraform and Argo CD; built CI/CD in Jenkins, GitLab CI/CD, and GitHub Actions, with observability through Grafana, Loki, and Grafana Alloy.

PROFESSIONAL EXPERIENCE — CONTINUED

Injaazy — Senior Software & Platform Engineer, Freelance (Part-time) | Jul 2022 – Present

Remote | Serving Saudi Arabia and Kuwait

- Design and maintain Laravel backend APIs, domain workflows, database schemas, and integration services for a multi-tenant education platform serving institutional customers.
- Architected Cloudflare Durable Objects WebSocket infrastructure handling 12M+ connection sessions per day and operate a platform serving approximately 4M HTTP requests per day.
- Migrated Laravel workloads to Octane on Cloud Run and moved realtime services to GKE for stronger scaling and operational control.
- Implemented Redis-backed horizontal scaling, autoscaling, health checks, and read-replica-backed production data workloads; troubleshoot performance and reliability issues across application and infrastructure layers.
- Delivered live video-learning workflows through Cloudflare RealtimeKit and an AI audio-analysis pipeline using Whisper, Vertex AI, and vector search.

Wedo Technology — Co-Founder & Full-Stack Engineer | Sep 2018 – Aug 2022

Khartoum, Sudan

- Co-founded a software studio and led requirements analysis, architecture, development, testing, deployment, and production support for government, education, and enterprise clients.
- Led technical delivery for SUNA, Sudan's official news agency, and Campus, an e-learning platform serving private medical colleges and a major university.
- Built backend applications, REST integrations, relational databases, deployment automation, and secure Linux production environments using Laravel, Vue.js, PostgreSQL/MySQL, Git, and cloud infrastructure.
- Worked directly with stakeholders to translate business needs into maintainable system designs, release plans, and operational documentation.

SELECTED ENGINEERING IMPACT

- High-volume realtime platform — 12M+ WebSocket connection sessions and approximately 4M HTTP requests per day across GCP and Cloudflare.
- Production migration — AWS to GCP application, database, DNS, and infrastructure cutover with approximately 20 minutes of downtime.
- Multi-tenant SaaS — tenant isolation, wildcard-subdomain provisioning, asynchronous queues, role-based access, observability, and automated delivery.
- Public-sector delivery — technical lead for SUNA, the official Sudan News Agency platform, plus education and institutional systems.

EDUCATION

B.Sc. Computer Science — International University of Africa | 2016 – 2020

Khartoum, Sudan

TRAINING & RECOGNITION

- Automation with Ansible — SdNOG, 2021
- Network Operations — SdNOG, 2021
- Linux Fundamentals — CyberTalents, 2021
- 1st Place, Programming Excellence Competition — International University of Africa, 2018