

ARSLAN UD DIN SHAFIQ

Software Architect | Full-Stack & Systems Engineer | Cloud and Cybersecurity | Technology Entrepreneur | Technical Author

director@stacklabx.com · hello@imarslan.net · +92 304 1280395

imarslan.net · linkedin.com/in/arslan-ud-din-shafiq · github.com/itsaareez1 · ORCID 0009-0008-4603-6478

PROFESSIONAL PROFILE

Practicing software architect and engineer with more than ten years of experience designing, building, and operating commercial software: multi-tenant platforms, payment and billing systems, cloud infrastructure, network and security software, and AI-powered applications. Founder-engineer who takes products from architecture to production single-handedly, across web, mobile, desktop, and systems-level code. Director of a UK software company, founder and chief executive of a Pakistani software company, and chief executive of a US software company. Alibaba Cloud MVP each year since 2018 and Honorary Technical Author for the Alibaba Cloud Blog, with more than fifty published technical guides. Author of a practitioner book on AI for small-business operations, published on Amazon.

PROFESSIONAL EXPERIENCE

Founder & Director · Stacklab X Ltd, Cardiff, Wales, United Kingdom · June 2025 – present

Founded and directs a UK software development and IT services company (Companies House no. 16537732, incorporated 24 June 2025); registered activities: business and domestic software development and other IT service activities.

Chief Executive Officer & Full Stack Developer · Websoft America Inc., Wyoming, United States · January 2021 – present

Founded and leads a US software company (Wyoming filing 2021-000976443). Develops and maintains web applications and SaaS products for clients; manages virtual, cloud, and dedicated Linux servers and deployments; owns technology strategy across enterprise software, cloud computing, DevOps, cybersecurity, automation, APIs, and AI-powered applications.

Founder & Chief Executive Officer · WebSoft IT Development Solutions (Pvt) Ltd, Gujranwala, Pakistan · June 2019 – present

Leads the team delivering IT-enabled services: web and mobile application development, shared hosting, VPS, remote desktop and dedicated servers, and virtual private networks. More than 500 projects delivered for clients across multiple countries.

Freelance DevOps Engineer · Solutions Creator Technology Ltd, United Kingdom · June 2023 – present

Full Stack Developer (freelance) · Shenzhen Shad Traders & Co. Ltd., China · January 2019 – present

Web development from single-site builds to custom e-commerce and affiliate content-management systems in Node.js, PHP, and JavaScript frameworks; payment-gateway plugins; UI/UX improvement.

Full Stack Developer · LEOPARDVPS, United States (self-employed) · June 2024 – present

Chief Technology Officer · USA Solution Creators Technology LLC, Sheridan, Wyoming · January 2022 – October 2023

Led a technology team of fifteen; oversaw technology strategy and development, project scheduling and delivery, Linux server management and deployments, and recruitment.

Director · SNS Venture Limited, Cardiff, Wales, United Kingdom · March 2021 – December 2021

Set up and managed an Amazon Marketplace operation and trained the team in product entry, fulfillment, and the FBA model.

Chief Executive Officer · GeterHost, Gujranwala, Pakistan (web hosting) · July 2016 – October 2018

Technical Writer · Alibaba Cloud · contract February 2018 – December 2019; volunteer technical author and community contributor since

Authored technical guides and articles for Alibaba Cloud services and engaged with the developer community through online discussions and offline events.

Independent full-stack developer (freelance) · Fiverr, Upwork, Freelancer.com · December 2015 – present

EDUCATION

- **Master of Science, Computer Science with Cyber Security** · University of York, United Kingdom · 2019–2021; graduated 2022
- **Bachelor of Science, Software Engineering** (four-year program) · Lancaster University, United Kingdom · 2014–2018
- **Bachelor of Science, Software Engineering** (four-year program) · COMSATS University Islamabad, Lahore campus, Pakistan · 2014–2018 (dual-degree program with Lancaster University)

PROFESSIONAL RECOGNITION

- **Alibaba Cloud MVP (Most Valuable Professional) and Ambassador**, June 2018 – present; first awarded June 2018 and renewed each program year — nine awards, 2018–2026. Profile: mvp.alibabacloud.com/mvp/detail/101
- **Honorary Technical Author**, Alibaba Cloud Blog; multiple articles featured in Alibaba Cloud's #FridayFive selections.
- **Expocommerce** featured on the Alibaba Cloud Project Hub, 2020.
- **DICE-IET Information & Enabling Technologies Innovation competition, 2017**: third position, with distinction, for the COMSATS Queue Management System (CQMS), among IT projects from universities across Pakistan.

TECHNICAL AUTHORSHIP AND PUBLICATIONS

- **Book**: a practitioner guide to automating small-business operations with AI. Amazon, ASIN B0HJPBR8ST.
- **Book series**: *Exploring Computing*.
- **Technical guides and tutorials**: more than fifty published through Alibaba Cloud (Community and Blog), DZone, Medium, and LearnCybers, on cloud computing, software engineering, cybersecurity, Linux, networking, DevOps, and emerging technologies. Representative titles: *Cloud Networking: Powerhouse Behind Your Cloud Applications*; *Serverless Computing: Benefits, Challenges, and the Code-Free Frontier*; *How To Set Up Secure Nginx Server Blocks on Ubuntu 22.04*; *WireGuard VPN on Ubuntu 20.04: Setup and Deployment*; *Mastodon Using Docker on Alibaba Cloud ECS*; *Chef Server Workstation on Linux*; *A Brief Guide for Configuring Nagios*.

CERTIFICATIONS AND PROFESSIONAL DEVELOPMENT

- Alibaba Cloud — Cloud Computing Using SAS to Publish an OpenCart E-Commerce Website (2023).
- University of Colorado (online) — Linux Server Management and Security (2020).
- Harvard University (online) — CS50's AP Computer Science Principles (2019).
- Alibaba Cloud — Cloud Computing Specialist: Operate and Manage a Cloud Server (2018).

SPEAKING, WORKSHOPS AND COMMUNITY

- Organized and presented two Alibaba Cloud community events in Pakistan: a lecture on cloud computing with hands-on cloud-server provisioning and WordPress deployment, Marian Hotel, Gujranwala (2018); and a lecture on online business, e-commerce and cloud computing with a live WooCommerce deployment, COMSATS University Islamabad, Lahore campus (2019).
- Presented the CQMS project at the DICE-IET exhibition (2017).
- Volunteer technical author, LearnCybers (Pakistan), since March 2019.

SELECTED ENGINEERING PROJECTS

- **JaguarVPN** (2026 rewrite; product line since 2019) — consumer VPN business in one monorepo: backend API, Flutter clients for Android, iOS, macOS, Windows and Linux, marketing site, customer dashboard, admin panel, support-agent app, and a Chrome extension in nine locales, with a custom anti-censorship network protocol in Rust, matching node agents, subscriptions across four payment rails, and live support. Sole developer and architect; ~1,266 commits over fourteen weeks.
- **Universal Commerce and POS Platform** — multi-tenant commerce platform: NestJS API with CQRS and Redis, Next.js point-of-sale client with offline-first synchronization (Zustand, Dexie/IndexedDB), admin back office, mobile app and background worker, across seventeen domain packages. Localization packs for Pakistan, Saudi Arabia, the UAE and the UK; industry packs for restaurant, fashion retail, grocery and electronics.
- **APEX Trading Engine** — production Python trading system with supervised restart across eight concurrent loops, atomic writes for persistent state, graceful shutdown with panic flush, WAL-mode SQLite with a dead-letter queue, clock-skew detection and exposure-aware position sizing. Shipped with a monitoring, deployment and incident-response tier and a production-readiness checklist. ~248 commits.

- **Data Recovery Suite** — cross-platform recovery engine in Rust with a shared core for Windows, macOS, Android and iOS: storage abstraction over block devices and images including damaged-media salvage and MBR/GPT handling; detection for NTFS, exFAT, FAT12/16/32, ext2/3/4, HFS+/HFSX and APFS; MFT-level NTFS metadata recovery with path rebuilding; raw carving of twenty-four formats with structural validation and confidence scoring.
- **StackSIM** — eSIM provisioning and B2B reseller platform orchestrating users, resellers, a telecom provider and three payment gateways, with high-concurrency wallet operations and strict decimal money handling. NestJS, PostgreSQL with TypeORM, Redis and BullMQ, separate Next.js frontend.
- **LeopardVPS** (Stacklab X Ltd) — hosting and VPS platform reselling vendor infrastructure with configurable markup: multi-currency billing (GBP, EUR, USD) across Stripe, PayPal and a cryptocurrency gateway, automated UK accounting with a dormant-VAT engine, admin CMS, customer control panel and status page. Monorepo with Next.js web, NestJS API and BullMQ worker, Prisma and PostgreSQL, pluggable vendor, gateway and notification adapters.
- **CalcPerks** — platform of 110 calculators in which regulation-dependent computations run on versioned rule data with recorded provenance, engines that take rules as an argument, test suites cross-checked against the issuing authority's published figures, and a publication gate that blocks a page whose rule data has gone stale.
- **Tourist Visa Services** — visa application platform with customer portal, payments, document upload with presigned S3 storage, application tracking, admin back office, and AI-assisted content and guidance built on OpenAI and Google Gemini. Next.js and TypeScript with Prisma and PostgreSQL; ~314 commits.
- **Storefront X** — database-driven e-commerce and marketplace platform: admin-configurable products, categories, payment gateways, shipping rules, taxes and themes; materialized-path category tree, cartesian variant generation, smart collections, bundles, digital and subscription product types, PostgreSQL full-text search and multi-vendor support. NestJS, Prisma, PostgreSQL, Redis, BullMQ, REST and GraphQL, Next.js admin and storefront.
- **Storage Doctor (macOS)** — SwiftUI storage analyzer that profiles roughly 1.1 million files in under thirty seconds, attributes space to named artifacts rather than an "Other" bucket, explains the consequence and risk of each proposed deletion, and refuses unsafe operations such as removing container images, virtual-machine disks, Time Machine snapshots or the Mail database.
- **Earlier product lines and client work** — vehicle-history report SaaS (Vinquention and sister brands); WHMCS payment-gateway and server-provisioning modules; hosting brands and control panels; the COMSATS Queue Management System (third place, DICE-IET 2017); Expocommerce, featured on Alibaba Cloud Project Hub; and marketing, CMS and e-commerce sites for agency and direct clients.

TECHNICAL SKILLS

- **Languages:** Rust, TypeScript and JavaScript, Python, Swift, Go, Dart, PHP, C#, Java and Kotlin, C, SQL, Bash.
- **Backend and architecture:** NestJS, Next.js server runtime, Laravel, Express; Prisma, TypeORM; REST and GraphQL; CQRS; BullMQ and queue-based workers; monorepos (Turborepo, pnpm workspaces); adapter and plugin architectures.
- **Frontend:** React, Next.js App Router, Tailwind, shadcn/ui, TanStack Query, Zustand; Three.js and WebGL.
- **Mobile and desktop:** SwiftUI and StoreKit 2; Flutter across five targets; native Android (Java and Kotlin).
- **Data:** PostgreSQL, MySQL, SQLite (including WAL mode), Redis, Dexie/IndexedDB for offline-first clients, full-text search.
- **Systems and networking:** filesystem internals (NTFS, APFS, ext4, exFAT, HFS+), block devices, MBR/GPT; network protocol design; Xray/VLESS Reality, WireGuard, SoftEther.
- **Cloud and DevOps:** Docker and Compose, GitHub Actions, PM2, Nginx/Apache/OpenLiteSpeed, Plesk, aaPanel; Alibaba Cloud, AWS, Google Cloud, Microsoft Azure; Linux server administration and hardening.
- **Security:** application security, server hardening, VPN infrastructure, authentication and identity, encryption, payment-flow security.
- **Payments and commerce:** Stripe, PayPal, cryptocurrency gateways; WHMCS gateway and module development; multi-currency billing and VAT automation.
- **AI:** OpenAI and Google Gemini integration, retrieval and ML-assisted search, agent tooling, self-hosted inference infrastructure.
- **Practices:** Agile (Scrum, Kanban); manual and automated testing (Selenium, Postman); Git.
- **Languages spoken:** English (fluent), Urdu and Punjabi (native), Hindi (spoken).