Arslan Ali

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**Certified Scrum Master (PSM) |Certified CNCF Kubestronaut™
Enterprise Cloud-Native Architect | Technology Leader**

Summary

- 2 Decades of technology leadership experience, with over 12 years in Software Development, 7 Years Designing, Developing and Orchestrating Digital Infrastructures and Software for enterprise, and 2+ Years contributing Kubernetes CoreAPIs.
- Attained **Kubestronaut™,** a title that is a prestigious recognition awarded by the Cloud Native Computing Foundation (CNCF) to individuals who have demonstrated exceptional expertise in Cloud Native Technologies.
- Hardcore Opensource Developer, with experience in developing robust, scalable, and performant applications being used at scale.
- Scored PSM (Professional Scrum Master) certification to implement effective change management and Agile methodologies in software development. (Currently pursuing PSPO)
- Planning, designing, and deploying engineering policies and standards for code quality, development, continuous integration, continuous delivery, testing, quality assurance, security and compliance.
- Expert in creating, presenting, and pitching cutting-edge technologies, Complex Software Architectures, Business Plans, MVPs, and BI Reports to Customers, Partners, Potential Investors etc.

Experience

Director Cloud and Emerging Technologies   Jan 2023 – To Date

Low Code Solutions FzCo - UAE

LCS is a leading Enterprise Digitization, Modernization and Cloud Consulting, with its consultants helping Enterprises in verticals like Governments, Defense, Telcos, Techos, Retail, Insurance, Oil and Gas, and even Startups with happy customers across Middle East, Europe and US. I help excel, the Cloud, Infrastructure, Cyber Security and Open Source Software Development Teams in Customers like Neom, STC, DU and more.

Member of CoE – NEOM Gov. KSA(Contract)

I am an active member of the Center of Excellence at Neom, where I contribute to Neom's Digital Governance teams in designing robust, scalable, and future-proof technology architectures. As part of the Technology Innovation Initiative, I lead a team of open-source and low-code developers to prepare PoCs that address performance, scalability, and robustness challenges in legacy low-code platforms for E-Government systems. Leveraging cutting-edge open-source design patterns, I work to modernize and optimize these platforms for scalability and incredible UX. Additionally, I actively participate in monthly technology meetups, engaging with experts to drive innovation and establish best practices for Neom's digital transformation initiatives.

OpenShift Architecture and Deployment Consultant – DU Telco AE(Contract)

Helping ATOS/DU Teams to design, architecture, and rollout Enterprise Applications PR/DR on OpenShift Platform. This Project was almost similar to STC, however, further details can only be provided in person on a high-level as the NDA restricts most of it.

OpenShift Architecture and Deployment Consultant – STC Telco KSA(Contract)

Helping TCS/STC Teams to design architecture and rollout Enterprise Applications PR/DR on OpenShift Platform. Following are the project highlights:

1. Design and Architecture of Cloud Native **PR/DR** OpenShift Multi Cluster Solutions.
2. Upgraded Legacy COTS VM based Applications running in **5** Environments.
3. Lift and Shift Legacy COTS Applications from VM to OpenShift.
4. Implemented GitOps for Infrastructure Deployments and Continuous Delivery.
5. Integrated Jenkins Pipelines for Continuous Container Delivery.
6. Implemented mTLS and Inter-Pod Comms Security to establish Zero-Trust.
7. Cluster Hardening by Implementing 4 Cs Principles, Code, Container, Cluster and Cloud.
8. Deployment of ELK Stack for Observability and Monitoring.
9. Deployment of Strategic Applications as a Corporate Capability e.g: Kafka and Elastic Search
10. Implementation of Distributed Clusters to achieve Active-Standby and Active-Passive DR Capability.
11. Record RPO of less than **500ms** and RTO of less than **10min**.

Rancher Design and Deployment Consultant – Neom Gov. KSA

I played a key role in the design and deployment of Rancher Multi-Cluster Management Solution, including the development of Rancher Fleets to enable Continuous Delivery and the preparation of production clusters for mission-critical applications. Additionally, I collaborated with Neom and TCS infrastructure teams on preparation of CMM, sizing, design, architecture, and deployment across four production environments and numerous support environments, covering platforms such as Pega, Software AG, Alfresco, Nexus, Jenkins, and more.

Tech Stack: Bash, Python, OpenShift, Rancher, Docker, Helm, Prometheus, Kubeclarity, TimescaleDB, MongoDB, PostgresSQL, MS SQL, Cloud SQL, Jenkins, Gitlab, NetOps, Gitops, Redis, Kafka, Elastic Search, ELK, Pega Infinity, Pega Constellation, Pega Deployment Manager, Pega CS, Pega PDC, Pega Robotics, Pega Decisioning (CDH) etc

Head of Engineering   Dec 2021 – Dec 2023
Mindboard Inc. – USA (Remote FTE)

Leading AIOPs development studio, developing products for automation of Media Analysis, Content Moderation, Cloud Operation, and Security.

Kaiops.io

KAIOPS is a SaaS that improves security and simplifies IT cloud operations by accelerating, amplifying, and automating problem resolution for complex Kubernetes clusters leveraging Artificial Intelligence and Machine Learning. Joined Kaiops as a Founding team member, worked closely with the Founders, and helped them develop this amazing application in record time.

Wearing different hats and having a go-go-go attitude toward solving challenges is the most amazing part of my time at Kaiops. Following are some of the most important tasks I enjoyed challenging myself to go over and beyond my limits:

- Cultivated the design and architecture of the SaaS infrastructure.
- Designed the **inter-services communication** and orchestration standards, using state of the art technologies including **Kafka, Redis** and **Istio** etc.
- Directed the team in formal **Agile Practices** through sprint planning, daily scrums, and sprint review meetings. (Managing Tickets using Jira and Documentation /Knowledge Base using Confluence)

- Facilitated the founders in **Market Analysis**, **Financials**, **Startup Forecast**, **Budgeting, competitor metrics,** and **monetization plan**.
- Delivered **Live Demos** to customers/potential partners, was involved in most of the Investor Pitches, and mentored the team to come forward and participate in these demos.
- Enabled the team and developed **CICD pipelines for multiple environments**, implemented caching and automation, and managed application configs/secrets on Gitlab while integrating GKE and Amazon EKS. It also brought us to less than **10 min of the release cycle time**.
- Facilitated the team to improve frequent DB and interservice grpc call response by **660%** by developing a custom multi-layer caching engine.
- Designed and helped my team develop an Optimised Storage Engine, which helped save only the essential time-series telemetry data and even optimize and aggregate the data over time, **improving 10x Storage** space and **3x IOPs improvement**.
- The passion for software development often leads me to roll up my sleeves to develop and/or mentor the developer by showing off my development skills in **pair programming**.
- Developed different code generators which helped developers **write modules 100x faster** and with less boilerplate code. Resulting in **more standardized** and **10x bug** free codebase.
- Enabled the team to write cloud-native microservices by establishing and developing multiple **Docker**, **Kubernetes**, and **Helm** manifests.
- Guided the team to create a **mono-repo** using NRWL for hosting multiple microservices, different reusable libraries, and other third-party modules.
- **Facilitated the HR** in the overall hiring and onboarding process for the engineering team members, including but not limited to creating JDs, Posting Ads on Portals, initial screening through automated test platforms, Interviewing, onboarding, and training, etc.

Tech Stack: Javascript, Angular, React, Nestjs (Nodejs), Bash, Python, Kubernetes, Docker, Helm, Prometheus, Kubeclarity, TimescaleDB, MongoDB, PostgresSQL, GKE, EKS, Gitlab Gitops, Redis, DevOps etc

Head of Engineering
Jan 2020 – Nov 2021

Homeclick LTD – UK (Remote FTE)

European Startup founded by British Entrepreneurs to develop online SaaS products to bridge the gap between consumers and service providers. Appointed as Head of Engineering to foster their Technical Department with a remote-cross-Atlantic approach covering UX/UI, Technical Architecture, and SEO Footprint. The projects include:

GoBoilerQuotes.com

Boiler Quotes an online platform developed for house owners in the UK to service, repair, or install new boilers in their homes by selecting Gas Safe® Certified Engineers. In the creation of this outstanding product, I am leading and have completed the following tasks:

- Technical review of Corporate plan and trained team to create effective and efficient Go To Market strategy.
- Enabled team for planning, designing, and **deploying engineering policies** and **standards** for code quality, development, continuous integration, continuous delivery, testing, quality assurance, and security.
- Mentored the team in **Cloud Native Microservices Architecture**, leveraging the **AWS AKS/GKE** infrastructure to host and orchestrate distributed microservices on hosted Kubernetes Engine.
- Guided the team to create Microservices Development Architecture based on **Nodejs**, **Dot Net**, and **Spring** Frameworks.
- Facilitated the team by developing Boilerplate Microservices Projects to help take the development process off the ground for the Development teams using the following Technology Stack:
  a) Event Sourcing, Caching, and Message Queue using **Redis**
  b) Image and File Storage at **AWS S3**, **MongoDB**, and **Postgresql**
  c) Frameworks stack contains and is not limited to **Nestjs**, **Dot Net**, **Spring**, **Angular**, **Nrwl**, **Typescript**, **Express**, **Fastify**, **GRPC**, **Nest Cloud**, etc.
  d) Deployment and Containerization are done using **Docker** and **Helm** for **Kubernetes**
  e) **CICD** using **Gitlab**
  f) Automation and Deployment Scripts/Manifests using **Bash** and **Yaml**

- Facilitated the team in Designing and developing 4 different levels of Caches using different caching algorithms to make the Application extremely fast in creating the **First Contentful Paint**, First Full Load, Subsequent Loads, and API Caching on both the Server and Client Side.
- Guided the team in projecting **Lazy Loading** at the Component Level using Angular's new **Ivy Engine** capabilities and designing a Fully Customizable Modular Widget/Component based Page loading system.
- Led the team in implementing **RBAC**, **OAuth**, and **JWT-based** User Microservice for handling Authentication and Permissions.
- Enabled the team to create Notification Microservice using **Event Sourcing** while integrating it with **Amazon SES**, **SNS**, **Firebase Messaging**, and Message Bird.
- Directed the team in building Worker Microservices for handling IO and other processing tasks while keeping the front-end Microservices **de-coupled** using **Redis MQ**.
- Facilitated the team in designing and deploying Payment, Accounting, Billing, and other Microservices for keeping the **separation of concern** and modularity in place.

Tech Stack: Javascript, Angular, React, Nestjs (Nodejs), Bash, Python, Kubernetes, Docker, Helm, Prometheus, Kubeclarity, TimescaleDB, MongoDB, PostgresSQL, GKE, EKS, Gitlab Gitops, Redis, DevOps etc

Software Architect   Oct 2019 – Jan 2020

Nokia Networks – Dubai UAE

Designed and Developed a Prototype of Digitization of Contract Management Framework (CMF), which was later developed in-house by Nokia. The World Commerce and Contracting Association (WCCA) later recognized the product and awarded Nokia Pre-Sales and Contract Management as 'The EMEA Winner of the Strategic Direction Award 2020'.

Tech Stack: Flutter, Nestjs (Nodejs), Docker, MongoDB, GCP, Gitlab Gitops, Redis, Codemagic, DevOps etc

Software Architect   Oct 2019 – Dec 2019

Confidential (Financial Institution) – UK (Remote)

Designed and Developed a microservice-based Prototype for BI, Visualization, Analyses, and Manipulation of Big Data sourcing from Snowflake.

Tech Stack: Javascript, Angular, Nestjs (Nodejs), Docker, MongoDB, Snowflake DB, GCP, Gitlab Gitops, Redis, DevOps etc

Software Architect   Oct 2019 – Nov 2019

CallusDoctors.com – US (Remote)

Designed and Developed a Patient and Practice Management SaaS for a US Based Health Care Institution. I lead a team of Remote Cross-Border Software Developers for the development of this amazing microservices-based SaaS product.

Tech Stack: Javascript, Angular, Nestjs (Nodejs), Docker, MongoDB, GCP, Gitlab Gitops, Redis, DevOps etc

Engineering Lead, Co-Founder   Dec 2015 – Oct 2019

Fixonclick Portal LLC – Dubai UAE

FixOnClick – is an online application developed under the hood of Dexterous Online Portal LLC in Dubai. The app and portal connect consumers to the required Professional Fixers anywhere in UAE.

Professional Endeavors as Co-Founder

Sketching the business idea on paper and turning it into a beautiful progressive App is an exceptional technical and management experience for which I have:
Supervised the team in creating business plans and preparing Investor's Pitches to show opportunity in an $80B Service Industry of UAE, creating a comprehensive company valuation of $6M.

Enabled the team to Identify obstacles and scored a 3K Service Providers registration within 3 Months of formal product launch.

Facilitated the Sales and Marketing teams to help reach Break Even.

Developed a BPO with the team in Pakistan to provide 24/7 Customer Support and better Management Operations.

Product Management to define the product vision, and understand the market trends, partner ecosystem, go-to-market strategy, and ROI. Conducted End User Meetings to document their stories. Used these stories to convert them to PBIs and develop a highly flexible application using an iterative and incremental Agile approach while keeping all stakeholders and teams in sync with change.

Technical Achievements as Engineering Lead (CTO)

It was important to build it in-house for the highly dynamic architecture of the app. I orchestrated it with my design, engineering, marketing, and sales team, following major roles with an enthusiastic team that built FixOnclick.

Guided the team to manage, hire, and train cross-functional local/remote engineering and customer support teams.

Facilitated the team to design the MVP to launch initially and later a modular state-of-the-art Software Architecture using Current Edge Technologies, which

helped update features and shipped them in the minimum possible time.

Facilitated the team to design Microservices Architecture to fulfill a 12 Factor Application compliance, which helped develop the features in Sprints with iterations and keeping the separation of concerns.

Facilitated the team in designing Core Services' Architecture for Users, Monetization, and a real-time Notification Engine.

Facilitated the team to develop the Cloud Deployment Architectures to utilize containerization and orchestration technologies like Docker, Docker Swarm, Kubernetes, and OpenShift, to leverage the microservice deployments, scaling, monitoring, management, and delivery.

Hands-on experience developing backend microservices using Node, Python, Spring, and .Net.

Pioneered the team to develop cloud-native boilerplates with integrated CI/CD for teams to develop awesome-looking font-ends Frameworks like Angular and React and Single Code Base Frameworks for mobile like Flutter.

Tech Stack: Javascript, Angular, Flutter, Nestjs (Nodejs), Bash, Python, Kubernetes, Docker, Helm, Prometheus, MongoDB, PostgresSQL, GKE, Gitlab Gitops, Redis, DevOps etc

CTO, Co-Founder   June 2004 – Dec 2015

Ansari Security System LLC – Dubai UAE

An ICT Solutions Provider across various industries, including Public, Defense, Hospitality, Healthcare, Education, Retail, Royal Offices, and other Private Sectors. The company has core experience in designing, building, and implementing Current Edge Surveillance Systems, Digital Media Transmission and Control Systems, and state-of-the-art Automation Systems. I have had my hands on the following major aspects of business:

Steered the team to create Infrastructure, Security, Audio Visual, and Automation Divisions, each with its Revenue Streams, generating a total of 14M AED average yearly revenue.

Coordinated and led the team to Manage multiple Key Accounts and their Projects, mainly in Public and Defense Verticals.

Spearheaded and worked closely with the Project Management Teams to develop and deploy professional solutions.

Trained the team to form a formal Contracts Management portfolio to manage long-term contracts.

Spearheaded the team to create efficient processes for Estimation, Sales Engineering, Specification, and Compliance Management.

Facilitated the team to shape an R&D Department to do continuous research and development to keep our solutions one step ahead of the general market.

Mentored the team and led local and remote Engineering Teams for Projects all over MENA, mostly in Saudi Arabia, Qatar, Oman, UAE, and multiple African countries.

Tech Stack: Javascript, Java, JQuery, Nodejs, ASP, Crestron Digital Media, AMX

Software Developer   June 2003 – Dec 2004

Kayos Works – Islamabad Pakistan

KayosWorks is a Consultants owned IT services and Software Development Company based in New Jersey, USA, with its local office in Islamabad, Pakistan. They were working on a distributed solution for major federal agencies.

Projects:

- **Optimized Query Engine**
  It was an ETL (Extract Transform and Loading tool) Developed using Visual C++ (COM/ATL) for optimization of a health care product named Visual Practice (www.visualpractice.com), developed in Visual FoxPro 6.0. The component uses high-performance data caching and synchronization mechanisms.
- **Visual Practice 2.0 Enterprise Edition**

It was an application with heterogeneous systems architecture; the database is located on a Linux-based server maintained by a PostgreSQL server. The GUI/ front end is developed for the Windows platform. The application's front end is developed in VC#, the middle tier is developed in VC++ .Net, and the database is connected through ADO .Net using pgSql (An OLEDB driver for PostgreSQL).

Tech Stack: C++, Visual C++ 6.0, COM, DCOM, COM+, C#, Visual Basic, Visual Studio 6.0, FoxPro, SQL Server

Education

MSc, Software Engineering- 2004   **Bahria University, Pakistan**

Involved in Managing Inter-University Educational / Sports Contests and Trade Shows as **General Secretary** of University's Official Student Council (BACSAP)

BSc, Software Engineering- 2002   **Bahria University, Pakistan**

Won several awards in Inter-Universities Technology Competitions

Licenses & Certifications

CKAD   **CNCF (Cloud Native Computing Foundation)**

Certified Kubernetes Application Developer
http://bit.ly/arslan-acclaim

PSM   **SCRUM.ORG Professional Scrum Foundation**

Professional Scrum Master
http://bit.ly/arslan-scrum

Skills and Expertise

Management
- Product Management – **JIRA, Trello, Confluence, MS Projects**
- Project Estimation and Budgeting – **MS Projects, SI6 and Excel**
- Budgeting, Financial Forecasting and Project Expense Management – **Sage ERP, Excel**
- Presentations, Trainings and Workshops **--- PowerPoint, Prezi and Web/HTML5**
- Resource Management – **JIRA, Hubstaff, Rock.so,**

Technical
- Wire framing and Concept Designs – **Adobe XD, Draw.io, Sympli, and Corel Draw**
- Software Development **– Node, .Net, Angular, React, Dart, Java, Python, Ionic, Native Script, Flutter…**
- Cloud Providers **– Heroku, AWS, GCP, Galaxy and Digital Ocean**
- Containers and Orchestration **– Docker, Docker Swarm, Kubernetes, Openshift**
- Cloud Automation **– Ansible, Puppet and Chef**
- CI/CD **– Gitlab, Circle-CI and CodeMagic**

Public Speaking and Workshops
- Trainer, Presenter and Speaker at **GDG (Google Developer Group) Dubai**
- Trained and Presented at **TheAssembly.ae https://lnkd.in/fkeFKUa**

Awards

- Winner of 5000USD scholarship offered by **CCBC 2004** (Canadian College of Business and Computers).
- Winner **BrainStrom 2004** Software Competition organized by Brains **(PWR)**
- Winner **BrainStrom 2003** Quiz competition organized by **Brains (PWR)**.
- Winner **ZABVISION 2002** the annual All Pakistan Quiz Competition arranged by **SZABIST (ISB)**.
- Winner of Third Prize in **NASCON 2002** the Annual All Pakistan Quiz Competition arranged by **FAST (ISB)**.
- Winner of Bahria University Annual Quiz Competition three times in a row.

References

Mindboard (Kaiops) US.

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Nokia

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