



Arslan Ali



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Sr. Cloud Native Architect | Development Team Lead | Engineering Manager
Certified Scrum Master (PSM) | Certified Kubernetes Application Developer (CKAD)

Summary

- 18+ years of technology leadership experience, with more than 10 years in Core Software Development for fast-paced innovative startups developing **B2B**, **B2C**, and **AI/ML** Cloud management and security products.
- Performed Product Development, Financials, Life Cycle, KPI and BI Matrix, Launch, Marketing, Customer Acquisition, Retention Strategies, UI/UX, and Nfx concepts.
- Demonstrated professional skills in Planning, leading, aligning, and creating **new revenue streams/monetization plans**.
- Expert in **creating, presenting** and **pitching** the Business Plan, MVPs, and Reports to Customers, Partners, Potential Investors, and other stakeholders.
- Accomplished **CKAD** certification to leverage the containerization and service orchestration of enterprise applications by utilizing technologies like **Kubernetes, OpenShift, Dockers**, etc.
- Scored **PSM** (Professional Scrum Master) certification to implement effective change management and Agile methodologies in software development.

Experience

Head of Engineering

Dec 2021 – To Date

Mindboard Inc. – USA (Remote FTE)

Leading AIOPs development studio, developing products for automation of Media Analysis, Content Moderation and 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 through utilizing 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 towards solving challenges was the most amazing part of my time at Kaiops. Following are some of the most important tasks where I enjoyed challenging myself to go over and beyond my limits:

- I started off with designing and architecting the SaaS infrastructure.
- Rolled-out an MVP in less than 2 months with the help of an enthusiastic team and also by utilizing the **enterprise SaaS modules** and **boilerplates** I developed over the years.
- Implemented the overall hiring and onboarding process for the engineering team members which includes but is not limited to, the creation of JDs, Posting Ads on Portals, initial screening through automated test platforms, Interviewing, onboarding and training, etc.

- Implemented formal Agile Practices through sprint planning, daily scrums, and sprint review meetings.
- Facilitated the founders in Market Analysis, Forecasted Financials, competitors metrics, and even monetization plan.
- Conducted Live Demos to customers/potential partners and was involved in most of the Investor Pitches.
- Created a mono-repo using NRWL for hosting multiple microservices, different reusable libraries, and other third-party modules.
- Developed **CICD** pipelines for multiple environments, implemented caching, and automation, and managed application configs/secrets on Gitlab while integrating GKE and Amazon EKS. This brings us to less than **30min of release cycle time**.
- Created many UI Features, and Dashboard widgets using AngularV13 and D3 Engines.
- Improved frequent DB and interservice grpc calls response by **660%** by developing a custom multi-layer **caching engine**.
- Designed and Developed **Optimized Storage Engine** which helped save only the essential time-series telemetry data and even optimize and aggregate the data over time resulting in improving **10x** Storage space and **3x** IOPs improvement.
- Written multiple **Code Generators**, that helped teams generate multi-language standardized code in minutes which otherwise could have taken days.
- Created 100s of Docker, Kubernetes, and Helm manifests to help deploy Kaiops Microservices and also to deploy agent services on customer clusters.
- Developed Application wide Dynamic Audit Log by creating custom Typescript Decorators in Nestjs

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

Head of Engineering

Jan 2020 – To Date

Homeclick LTD – UK (Remote FTE)

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

GoBoilerQuotes.com

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

- Technical review of Corporate plan and help create effective and efficient **Go To Market** strategy.
- Planning, designing & deploying Engineering policies and regulations. Implementing code & development, **CICD**, testing, quality assurance and security standards ensuring effective delivery procedures
- Leading Cloud Native Microservices Architecture, leveraging the **AWS AKS/GKE** infrastructure to host and orchestrate distributed microservices on hosted **Kubernetes Engine**.
- Creating Microservices Development Architecture based on Nodejs, Dot Net and Spring Frameworks.
- Developing Boilerplate Microservices Projects to help take the development process off the ground for the Development teams using following Technology Stack:
 - a) Event Sourcing, Caching, Message Queue using Redis
 - b) Image and File Storage at AWS S3, MongoDB and Postgres SQL
 - c) Frameworks stack contain and not limited to Nestjs, Dot Net, Spring, Angular, Nrwl, Typescript, Express, Fastify, GRPC, Nest Cloud etc.
 - d) Deployment and Containerization is done using Docker and Helm for Kubernetes

- e) CICD using Gitlab
- f) Automation and Deployment Scripts/Manifests using Bash and Yaml
- Designing and developing 4 different levels of Caches using different caching algorithms to make the Application extremely fast in creating First Contentful Paint, First Full Load, Subsequent Loads, API Caching on both Server and Client Side.
- Projecting Lazy Loading at Component Level using Angular's new Ivy Engine capabilities and designed a Fully Customizable Modular Widget/Component based Page loading algorithm.
- Leading and implementing RBAC, OAuth and JWT based User Microservice for handling Authentication and Permissions.
- Creating Notification Microservice using Event Sourcing while integrating it with Amazon SES, SNS, Firebase Messaging and Message Bird.
- Building Worker Microservices for handling IO and other processing tasks while keeping the front-end Microservices loosely coupled using Redis MQ
- 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, PostgreSQL, GKE, EKS, Gitlab Gitops, Redis, DevOps etc

Software Architect

Oct 2019 – Jan 2020

Nokia Networks – Dubai UAE

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

Design 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)

Design 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 in to a beautiful progressive App is an exceptional technical and management experience for which I have:

- Created business plans and prepared Investor's Pitch to show opportunity in an \$80B Service Industry of UAE, creating a comprehensive company valuation of \$6M.
- Identified obstacles and scored a registration of 3K Service Providers in 3 Months of formal product launch.
- Worked with the Sales and Marketing teams to help reach the Break Even.
- Developed a BPO in Pakistan to provide 24/7 Customer Support and better Management Operations.
- Product Management to define the product vision, understand the market trends, partner ecosystem, go-to-market strategy, ROI and conducted End User Meetings to document their stories and convert them to PBIs and develop a highly flexible Application using iterative and incremental Agile approach, while keeping all stakeholders and teams in sync with change.

Technical Achievements as Engineering Lead (CTO)

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

- Managed, hired, trained cross-functional local/remote engineering and customer support teams.
- Designed the MVP to launch initially and later a modular state-of-the-art Software Architecture using Current Edge Technologies which helped updating features and shipping them in minimum possible time.
- Designed Micro Services Architecture to fulfill a 12 Factor Application compliance, which helped developing the features in Sprints with iterations and keeping the separation of concerns.
- Designing Core Services' Architecture for Users, Monetization, and a real-time Notification Engine.
- Developed the Cloud Deployment Architectures to utilize the containerization and orchestration technologies like **Docker, Docker Swarm, Kubernetes** and **Open Shift** etc. to leverage the microservice' deployments, scaling, monitoring, management and delivery.
- Hands-on experience of developing backend micro-services using **Node, Python, Spring** and **.Net**.
- Extensively developed cloud native boilerplates with integrated CI/CD for teams to develop awesome looking front-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, PostgreSQL, GKE, Gitlab Gitops, Redis, DevOps etc

CTO, Co-Founder

June 2004 – Dec 2015

Ansari Security System LLC – Dubai UAE

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

- Created Infrastructure, Security, Audio Visual and Automation Divisions with each one having their own Revenue Streams and which generated a total of 14M AED average yearly revenue.
- Managed multiple Key Accounts and their Projects mainly in Public and Defense Verticals.
- Lead and worked closely with the Project Management Teams to develop and deploy professional solutions.
- Formed a formal Contracts Management portfolio to manage long terms contracts.
- Created efficient process for Estimation, Sales Engineering, Specification and Compliance Management.
- Developed an R&D Department to do continuous research and development to always keep our solutions one step ahead of the general market.
- Lead local and remote Engineering Teams for Projects in all over MENA mostly in Saudi Arabia, Qatar, Oman, UAE and multiple countries in Africa.

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) which was originally developed in Visual FoxPro 6.0. The component uses high performance data caching and synchronization mechanism.

- **Visual Practice 2.0 Enterprise Edition**

It was an application with heterogeneous systems architecture; the database is located on a Linux based server which was maintained by PostgreSQL server and the GUI/ front end was developed for Windows platform. The front end of the application was developed in VC#, the middle tier was 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

Certified Kubernetes Application Developer

<http://bit.ly/arslan-acclaim>

PSM

Professional Scrum Master

<http://bit.ly/arslan-scrum>

CNCF (Cloud Native Computing Foundation)

SCRUM.ORG Professional Scrum Foundation

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>
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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.
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References

Mindboard (Kaiops) US.

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Nokia

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