

Contact

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(LinkedIn)

Top Skills

Value Innovation

Data-driven Decision Making

Technical Project Leadership

Languages

German (Limited Working)

English (Professional Working)

Urdu (Native or Bilingual)

Certifications

The Data Scientist's Toolbox

R Programming

Web Application Architectures

AWS Essential Training for Developers

AWS for Developers: ECS and Multi-Region Load Balancing

Honors-Awards

Dean's Honor Roll with Distinction

Taimoor Alam

Tech Leader | Architect | Director

Germany

Summary

Engineering Leader • Tech-Lead • Director

- strategic and progressive technical leader - 11 years of international experience in tech including 5+ years in technical leadership across diverse company sizes, industries and products
- led teams - building products from scratch as well as revamping large scale distributed systems while leading through constraints in dimensions of tech, business, people, budget & deadlines
- architected high-throughput-low-latency distributed systems & refactored cloud-native production legacy systems, with multiple layers of technical debt into modular domain-driven design, increasing scalability, maintainability & developer productivity; at the same time adding more features & generating revenue, while observing highly successful quality assurance standards
- multiplier, and servant-leader leadership style, leading by example in the development of critical projects, under tight deadlines while maximizing team engagement, and having adaptability for both hands-on, and eyes-on/hands-off approach when required

Leadership: Technical Leadership - Technical Strategy – Driving Innovation - Enterprise - Start-ups – Cloud – Team Decisions - - Architectural Runways – Technical Roadmaps - Hiring – Onboarding – Team Building – MVPs – Ownership - QA – Team-Owned Decision Making - System Architecture – Observability – Scalability, Reliability, Data-pipelines - High-throughput Low Latency Systems - Agility – Product Engineering – Prioritization - Mentoring – Cross-functional collaboration - Team-member growth – DevOps-CI/CD, Technology, Software Engineering, incident-management - Front-end – Compliance – Risk Analysis - Growth Mindset - Owning the Results – Culture-cultivation – Servant Leadership – Team Engagement – Interviews – Hiring – Onboarding team

Architecture: cloud • Domain-Driven Design • microservices • event-driven architecture • serverless • design patterns • onion architecture

Leadership: mentoring • cultivating team culture • promoting best practices • leading initiatives • interviewing & hiring
Programming Languages: Typescript • Javascript • Python • Java • C • C++ • C# • PHP
Frameworks: Nodejs • Nestjs • Angular • Flask • Serverless • jest • mocha • sinon • pytest
Cloud & Devops experience: S3 • Lambda • ECS • kinesis • Gitlab • linux • Docker • datadog/splunk • cloudwatch • media-convert
Databases & messaging systems: MongoDB • Dynamodb • MySQL • event-store • RabbitMQ • kinesis

Experience

Seven.One Entertainment Group

Technical Lead - Addressable TV

2020 - Present (5 years)

Munich, Bavaria, Germany

Atv is a multi-team complex product line that integrates digital ads on LiveTV. It runs a cutting-edge HbbTV-JS app on TV devices & several backend services integrated with adservers & tracking. With millions of users/day, a bursty traffic pattern, multi-layered technical debt, and deliverables demanded within tight deadlines, I

- defined technical vision & roadmap aligned to strategic business goals, maintaining & increasing ad impressions
- designed and implemented an architectural runway to simultaneously resolve technical debt as well as build new valuable features - balancing quality with speed of shipping
- Led the scaling of microservices based - multi-million user backend systems around bursty traffic, used agentic AI to expedite this process
- Led the initiative to plan, architect and realize data pipeline to channel billions of data points / day to opensearch, increasing observability and ultimately leading to an order of magnitude decrease in costs
- Spear-headed collaboration initiatives with product, architecture, leadership, engineering and other stakeholders
- Owned many innovation initiatives to increase ~20% reach and revenue
- Embedded knowledge sharing as a ritual: onboarding, mentoring engineers & attended industry conferences to maintain strategic networks, stay ahead of trends, and cascade insights across the teams

- Analysed the risks to the system & anticipated future requirements and challenges and transparently kept all stakeholders informed, premtively prepared mitigation strategies
- built a great team! - led the hiring process - defined selection criteria, designed technical assessments and interviews - maintained a low turn-over by incentivizing developers to grow
- fostered the culture of incident management and blameless postmortems
- maximized team level decisions, heard all voices and opinions
- led multiple successful GDPR related CMP audits
- preserved 30M euro revenue by leading the development of a TCF GDPR compliant CMP

DAYPAIO GmbH

Senior Software Engineer Full Stack - Tech Lead

2019 - 2020 (1 year)

Munich Area, Germany

- spearheaded the end-to-end architecture, development, and market launch of a CRM platform within a cross-functional SCRUM team, driving delivery in an agile environment.
- designed and implemented highly scalable, event-driven RESTful microservices leveraging NestJS (TypeScript) and EventStore, applying the CQRS pattern to optimize scalability and performance.
- led front-end development initiatives using Angular 9, establishing and enforcing standards for reusable component design aligned with the organization's design system.
- championed automated testing best practices by delivering comprehensive Jest test suites, significantly improving coverage and business logic reliability.
- provided technical leadership and mentorship to junior engineers, guiding apprenticeship progression and fostering growth towards front-end engineering proficiency.

Fortiss

Backend Software Engineer

2018 - 2019 (1 year)

Munich Area, Germany

- designed and developed microservice APIs in nodejs, keeping in mind simplicity and consistency
- researched swagger to document and represented API data in a universal schematic form

Skills: Nodejs | express | JavaScript | VS Code | git | swagger | microservice

KI labs GmbH
Intermediate Backend Software Engineer
2018 - 2019 (1 year)
Munich Area, Germany

- designed and built RESTful services in Flask over a dynamic data-pipeline using an onion-architecture
- incorporated jwt authentication in the back-end using third party authentication service
- wrote end-to-end unit tests and end-to-end tests for the API, also incorporated snapshottests
- collaborated in a SCRUM team with bi-weekly sprints and regular client interaction
- Skills: Python | Flask | MongoDB | JWT | Pytest | RESTful API
- Deployment Pipeline: Git | Jenkins | Kubernetes

OSRAM GmbH
Software Engineer
2016 - 2018 (2 years)
Munich Area, Germany

- understood and modified erbium CoAP implementation by adding oscoap security features in CoAP multicast
 - developed a CoAP server in python that acted as a CoAP to UDP translation middleware for third-party devices. It helped integrate devices, that did not talk CoAP, into the system.
 - designed and developed an application for mobile and desktop in Qt using C++/QML that controls lighting systems using CoAP as the communication protocol. The app was extensively used to demonstrate backend features to the business units of OSRAM
 - documented the development and installation process for ease of understanding of others
 - followed SCRUM tools and processes in a diverse team and used tools such as JIRA and git
- Skills: linux | git | eclipse | C/C++ | Qt | python | CoAP | REST | SCRUM | Software Documentation

Gorillabox Pvt Ltd
Software Engineer
2015 - 2016 (1 year)
Islamabad, Pakistan

- researched & developed an RTSP client in Chrome (that streamed a game from a server in the browser) using ffmpeg in C++ & JavaScript in the Chrome Native Client (PNaCl). Keyboard and mouse controls to the server were sent using socket programming

- made the entire development process replicable by documenting it in Bitbucket.

Skills: ffmpeg | C/C++ | PNaCl | JavaScript | linux | git | sockets | Software Documentation

Clary Icon

Software Developer

2014 - 2015 (1 year)

Islamabad, Pakistan

- reverse-engineered the OpenPhone SIP client by creating the UI in Qt C++ widgets.

- extended the external funding by developing a WebRTC (licode server) video recorder using REST API, transcoding the recording files using ffmpeg, recording the timestamps in MySQL and play-back using Nodejs and JavaScript

- developed a complete UI tutorial in C# WPF using synthetic voice and annotations

Skills: Nodejs | C++ | Qt | HTML | JavaScript | REST | C# | WPF | linux | Visual Studio | SIP | ffmpeg

LMKT

Research and Development Intern

2013 - 2013 (less than a year)

Islamabad, Pakistan

- developed a prototype of face detection & recognition system in an e-attendance software in EMGU CV in C#

Education

Technical University Munich

MSc Informatics, Computer Science · (2016 - 2018)

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology

BS, Computer Software Engineering · (2010 - 2014)

Headstart School Islamabad
GCE A Level · (2008 - 2010)

Cadet College Hasan Abdal
GCE O Level · (2005 - 2008)