Wiesbaden, Germany
+4917679858986
shamaila@indusvalleylabs.com
https://www.linkedin.com/in/shamailamahmood
https://shamaila.de/

Shamaila Mahmood

(Senior Software Architect / Fullstack developer)

Summary

A seasoned **Senior Software Architect** with over **25 years of experience** in developing, designing, and deploying large-scale software systems. Highly adept in **cloud technologies, microservices architecture, Kubernetes,** and **DevOps practices**. A proven leader with strong communication skills and the ability to translate complex technical concepts for non-technical stakeholders. **Fluent in English and German (B2 level),** with extensive experience leading international teams across various industries.

Skills

- Design Patterns, microservices, micro-frontend, distributed systems
- **Sprachen/Frameworks:** Java, JavaScript, TypeScript, Angular, React, Node.js, Spring Boot, Next.js, GraphQL, NgRx
- **Cloud-Technologien:** AWS, GCP, Kubernetes, Docker, Terraform, Azure
- **DevOps-Tools:** Jenkins, GitLab CI, GitHub Actions, Helm, Flux
- **Datenbankverwaltung:** PostgreSQL, MariaDB, MongoDB
- **Test-Tools:** Jest, Cypress, Mocha
- **CI/CD & Automatisierung:** GitOps, Terraform, Ansible, Jenkins, Kubernetes
- **Weitere Tools:** Kafka, RabbitMQ, Grafana, Auth0, Keycloak, Stripe

Certifications

- CKAD Certified Kubernetes Developer
- AWS Certified Solution Architect
- EMC2 Data Science Associate
- Sun Certified Java 2 Programmer

EXPERIENCE

Cornelsen Verlag GMBH, Deutschland / — *Senior Software Architect*

11.2023 - 06.2024

- Worked on migration of microservices from AWS to OTC, improving system scalability and performance.
- Worked on implementing logging and monitoring systems using Grafana and Kubernetes.
- Worked extensively on Angular applications and Java Spring Boot microservices.
- The technology stack includes **Java, microservices, Angular, NgRx, Nginx, OAuth, Kubernetes, Docker, Grafana, Micro-services**.

Vanderlande, Netherlands / — *Senior Software Architect*

October 2021 - January 2024

- Led multiple software development teams tasked with building a next generation warehousing platform using micro-frontends and event-driven microservices deployed on Kubernetes. Helped the team in implementing architectural best practices in CI/CD (gitops with **flux**), componentized frontends, and Kafka-centric microservices.
- Achieved outstanding business outcomes through hands-on collaboration across product management, infrastructure, frontend, backend and quality assurance teams. Accelerated the team velocity through targeted technical and non-technical interventions
- Mentored software architects and developers, providing technical guidance and feedback on their work.
- The technology stack includes **Java, microservices, Angular, NgRx, Nginx, Keycloack, oAuth, Kubernetes, Docker, Kafka and micro-frontend** based architecture.

Goldn GMBH, Germany — *Senior full-stack developer*

January 2021 - June 2022

- Developed customer-facing apps using **React**, integrated **OAuth** for secure authentication, and handled **Stripe** payment integration.
- Created a multi-tenant platform using **Next.js** and **GCP** services for enhanced scalability.
- The technology stack includes **React, GCP, Go Lang, GraphQL, Postgresql, Nginx and NextJs based frontend**. Implemented **OAuth based passwordless login/register** flows and integrated with Stripe. Used Auth0 for admin and customer apps with restricted email domain access.
- Lead the development of a blog and other public web applications using NextJs and **Strapi** with server side rendering enabled.

Chemster GMBH, Germany — *Senior full-stack developer*

December 2019 – December 2020

- Designed and implemented backend services using **AWS Lambda**, **Aurora Serverless**, and frontend in **React**. Also implemented passwordless login flows for the client facing frontend.
- The technology stack includes **Postgresql, AWS Lambda using NodeJs, SecretManager, Aurora serverless, CDK and React, Nginx based frontend**.
- Conducted code reviews and implemented best practices to ensure that the software codebase was maintainable and scalable.

Deutsche Bank, Germany — *Lead full-stack developer*

July 2018 – July 2019

- Designed responsive Angular and Java Spring Boot applications for internal banking systems.
- Supported the team with code reviews, training, and technical leadership in a fast-paced agile environment.

PropertyOnion — *Team Lead*

January 2018 – December 2022

- Started the project (property search engine) for a small enhancement in the search engine to allow users to search via visible area on map. The work was so much appreciated by the client that I got the opportunity to lead the whole development and later continued working as part time team lead for several years.
- Worked on **AWS, Java, Angular, Typescript, Github** to build customer and admin applications. Used github actions to automate deployment. Integrated **Paypal and braintree** for payment integration. Worked initially on a totally hands-on role for the initial couple of years in which I laid out the foundation of applications and the infrastructure using terraform and integrated **Paypal, oAuth using Auth0, Wordpress** and also wrote a data cleaning pipeline. Later I moved to managing the team of around 12 developers and steered the overall development.

Indus Valley Labs, Pakistan — *Co-founder*

April 2015 – Present

- I started the company as a solo developer and organically grew the company. I not only worked as a developer, but also hired new talent and in three years the company grew to 20 developers.
- I got the opportunity to work with startups and some very long term projects like iReservos, PropertyOnion and Goombal.
- I thoroughly enjoyed my broad role at Indus Valley Labs. I am proud that there is a big share of my hard work in the success of startups called BizMatch, PropertyOnion, SalesDNA and many others.

Freelance Software developer, Pakistan — *Various roles*

2001 — 2014

- Worked as full stack developer in various freelance roles.
- During these several years I managed projects from requirements gathering to development, deployment and testing and project handover which gave me the opportunity to work on all phases of software development.
- I worked in remote distributed teams and gained valuable expertise in effective communication and self organization.

EDUCATION

Institute of business administration (IBA), Pakistan — *MSCS*

2012 — 2017, Karachi

- Masters in computer science
- Courses in the field of Data analytics and artificial intelligence.
- Participated in Karachi koala - mobile robotics research team.

University of Karachi, Pakistan — *BSCS*

1998 — 2001, Karachi

- Bachelors in computer science.
- Trend setter to start working as software developer in local software house alongside with the studies

Achievements

- Founded Indus Valley Labs, a limited company registered in Pakistan and the United Kingdom that specializes in Software development and consultancy.
- Founded Pakistan Learning Network a non-profit online learning website and formed a team of volunteers to create courses
- Won first position and a cash prize at Dice Invent 2014 by presenting Pakistan Learning Network and got enrolled in IBA CED
- Served as mentor in Women Entrepreneurship Program at IBA