Muhammad Muntazir (Mehdi Bukhari)

Software Architect | Cloud-Native Solutions | AI & Fintech Innovator

Email: mmmbukhari@gmail.com | Phone: +92-3467291485

LinkedIn: https://www.linkedin.com/in/mehdibukhari/
GitHub: https://github.com/MehdiBukhari

Location: Islamabad

Professional Summary

I am a Software Architect with over 9 years of experience designing and developing scalable, cloud-native solutions, AI systems, and fintech platforms. My expertise spans the full software development lifecycle, with strong proficiencies in cloud architecture, microservices, fintech solutions, AI model fine-tuning, and conversational AI. I excel at leading cross-functional teams to deliver complex projects on time and within scope, ensuring alignment between technical solutions and business goals.

Key Skills

• Cloud Architecture: AWS, GCP, Kubernetes, Docker, AWS Lambda, Elastic Kubernetes Service (EKS)
• AI & Machine Learning: LLM fine-tuning, Conversational AI (LangChain, Ollama Mistral), Model Optimization, LoRA
• Backend Technologies: Node.js, Nest.js, Express.js, MEAN/MERN Stack, Microservices
• Frontend Technologies: React Native, HTML5, CSS, JavaScript
• Fintech Solutions: Stock & Crypto Trading Platforms, Real-Time Data Integration, Payment Systems
• Messaging & Distributed Systems: Kafka, RabbitMQ, Redis, Zookeeper
• Database Technologies: MySQL, MongoDB, DynamoDB, SingleStore, Cassandra
• DevOps & CI/CD: GitHub Actions, AWS CodePipeline, Docker, Kubernetes, CloudWatch, Continuous Integration
• API Development & Security: API Gateway, RESTful APIs, API Security, AWS SNS/SQS
• Team Leadership: Cross-Functional Collaboration, Agile Development, Project Management

Professional Experience

Software Architect | Team Lead

myAlfred.com, United Arab Emirates (Remote)

May 2024 – Present

• Spearheaded the design and development of the Investment Market, a stock and cryptocurrency trading platform, leveraging advanced financial APIs for real-time market data and secure transaction processing.
• Led the implementation of a cloud-native microservices architecture on AWS, using Nest.js and a monorepo structure to ensure scalability.
• Orchestrated containerized services using EKS, Docker, and AWS Lambda to provide high availability and fault tolerance.
• Integrated Kafka and AWS Kinesis for real-time data processing, enabling accurate insights for users.
• Directed a cross-functional team, ensuring collaboration between product, development, and operations teams for successful implementation of fintech solutions.
• Oversaw the development of the React Native mobile app with a single-store architecture, providing a seamless user experience.
• Established a CI/CD pipeline using AWS CodePipeline, automating deployments and infrastructure monitoring with CloudWatch.

Software Architect | Team Lead Software Development

MicroAgility Services (Pvt) Ltd., Islamabad, Pakistan

March 2019 – May 2024

• Led the design and development of a distributed microservices architecture on GCP, building scalable cloud-based solutions for www.iagility.com and www.agilebrains.com.
• Developed a conversational AI chatbot using LangChain and Ollama Mistral, enabling real-time interaction with documents.
• Built microservices using Express.js and integrated messaging frameworks like RabbitMQ and Kafka for system reliability.
• Implemented CI/CD pipelines using GitHub Actions, improving deployment processes across teams.
• Improved system performance with service registry and circuit breaker patterns, enhancing load balancing for complex microservices architecture.
• Successfully deployed solutions on AWS and GCP, using Kubernetes and Docker for container orchestration.

Senior Software Engineer

inovytax, Islamabad, Pakistan

March 2018 – March 2019

• Led the design and development of large-scale systems using the MERN Stack for web applications.
• Developed and optimized databases for real-time data management, ensuring system scalability with OpenStack.
• Implemented distributed servers for high availability, using technologies like Docker, REST APIs, Laravel, and RabbitMQ.
• Collaborated with clients and cross-functional teams to ensure the successful delivery of projects within scope and budget.

Software Engineer

IT HUB, Sargodha, Pakistan

October 2014 – March 2018

• Maintained and documented codebases, implemented system optimizations, and peer-reviewed code for quality assurance.
• Enhanced backend services by designing and implementing standard operating procedures, improving system performance.
• Introduced new technologies like Laravel, PHP, and AngularJS to improve software performance and scalability.

Education

Master's in Computer Science

University of Sargodha, Pakistan

2016 – 2018

Grade: 3.05/4.00

Bachelor's in Computer Science

University of Sargodha, Pakistan

2012 – 2014

Grade: A+

Key Projects

Fine-Tuning Llama 3.1 Model on Hugging Face

• Fine-tuned Meta's Llama-3.1 (8B) using LoRA for causal language modeling tasks.
• Optimized for 4-bit precision using BitsAndBytes for memory efficiency, deployed on Hugging Face for real-time inference.

Certifications & Honors

• Bronze Medal - University of Sargodha (April 2014)

Languages

• English (Full Professional Proficiency)
• Urdu (Native)
• Punjabi (Native)