

# Muhammad Azam Mehr Ghulam

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## Personal Statement

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Experienced **Technical Lead** with over 10 years of expertise in **backend** development, cloud-native architecture, and applied AI/ML systems. I hold a master's degree in **Artificial Intelligence**, with practical experience in machine learning, NLP, data pipelines, and production model deployment.

I have a proven track record of designing and leading scalable **microservices** using **Java**, Spring Boot, **Kubernetes**, and cloud platforms like AWS and Azure. My recent focus is on architecting intelligent systems that integrate large language models (LLMs), **event-driven pipelines**, and **machine learning** workflows into real-world enterprise applications.

I'm an AWS Certified Solution Architect and Machine Learning Specialist, with hands-on experience in deploying ML solutions using SageMaker, TensorFlow, and Python.

While I have experience in **frontend** development (HTML5, jQuery, JS, CSS3), my core expertise lies in backend technologies including Java, Spring, Kafka, Docker, IBM MQ, DB2, Postgres, and CI/CD tooling (Jenkins, Git, Maven, Gradle, SonarQube).

## Experience

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09/2023 –

### Technical Lead - Remote

Company Name:

Version 1

Place:

Birmingham - UK

Responsibility:

As a Tech Lead, I lead the development of a **microservices-based** application, **managing a team** of six developers. I set work **priorities** in line with delivery goals, tackle complex technical challenges, and handle high-priority tickets. I work **closely** with Business Analysts and Product Owners to design and implement new features, producing detailed low-level design documents based on impact assessments. I also oversee **release cycles**, manage **CI/CD pipelines** and development environments, and provide **hands-on technical guidance** to ensure smooth feature delivery. On top of that, I take on line-management responsibilities, including screening and interviewing candidates for new roles.

05/2022 – 09/2023

### Senior Software Engineer - Remote

Company Name:

Version 1

Place:

Birmingham - UK

Responsibility:

As a Senior Java Engineer for **HMCTS**, I participate in development of critical features within a microservices architecture leveraging Java 17, **Kubernetes**, and **Azure**. I played an active role in sprint planning, requirements analysis, and creating comprehensive low-level design documents, ensuring robust and scalable implementations. I also involved in code reviews, and provided technical mentorship to fellow developers, while conducting technical demos to enhance team collaboration and drive continuous improvement in feature development.

Skills:

Analytical Skills, Technical Solution Design, **Low-Level Design**, Leadership, Agile Methodologies, JAVA, Elasticsearch, PostgreSQL, **Kubernetes**, Helm Charts, **Docker**, Scrum, Linux, Git, JavaScript, Microsoft **Azure**, Jenkins, Spring Boot, **Microservices**

02/2021 – 05/2022

### Backend Software Engineer - Remote

Company Name: VE Global  
Place: London - UK  
Responsibility: I designed and maintained scalable APIs for **digital assistant applications**, leveraging **microservices** and **event-driven architectures** to improve system efficiency. I migrated stored procedures to Kafka, transitioned workloads from VMs to Kubernetes, and simplified complex business logic.

Beyond backend development, Designed and deployed a scalable real-time recommendation system using **AWS SageMaker**, **FastAPI**, and **TensorFlow**, integrating with a custom user management system for secure authentication. Built data pipelines with **Kafka**, Lambda, and **DynamoDB** to process and save user behaviour. Developed and automated model training and updating workflows in SageMaker, ensuring continuous improvement of personalized recommendations.

Collaborated with a team to develop a large-scale batch sentiment analysis system using Apache Spark on **AWS EMR**. Contributed to building a custom BERT-based deep learning model deployed on SageMaker, with daily inference via SageMaker Batch Transform. Assisted in processing and storing structured sentiment scores in **Amazon Redshift**, optimizing workflows with **AWS Step Functions** and EventBridge

Skills: Java, Python, Spring Boot, **Machine Learning**, **NLP**, FastAPI, SageMaker, TensorFlow, Microservices, Kubernetes, Docker, Scrum, Git, Python, JavaScript, AWS, Azure Tables, Elastic Search, Redis, Agile Methodologies

08/2016 – 10/2020

### Software Engineer - Java

Company Name: Accenture S.A  
Place: Bilbao - Spain  
Responsibility: I was part of a team responsible for maintaining and developing new features for a major client in the energy sector. My responsibilities included requirement analysis, impact analysis, effort estimation, client Q&A, writing technical documentation for new changes, coding, integration, and delivery. Additionally, I also involved in front-end development, working with technologies such as **HTML5**, **jQuery**, **CSS3**, and **JavaScript**. I also supervised and mentored a junior team member, providing guidance and support to enhance their skills and contributions.

Skills: JEE, WAS, DB2, Mybatis, **Spring**, **RESTFUL APIS**, IBM MQ, WAS, JQuery, HTML5, Bootstrap, CSS3, Maven, SVN, Git, Jenkins, SonarQube, Scrum.

04/2014 – 06/2015

### Software Engineer - Full Stack

Company Name: SMT - Social Media Technologies S.L.  
Place: Bilbao - Spain  
Project: Development of web video editor for social network using technologies like JEE, **Spring**, **Hibernate**, HTML5, CSS3, JavaScript, JQuery, JBoss, MSsql Server, FFMPEG, JUNIT, Microsoft **Azure**, GIT (GitHub).

Project: Development of promotional (publicity) app for Frigo products. Android application responsible for showing promotions when some beacon (IOT) found nearby using technologies like Android, JEE, Spring, Hibernate, Tomcat, SonarQube, Microsoft Azure, Git (GitHub).

10/2013 – 04/2014

**Software Engineer** (Java, Android)

Company Name: Sherpa S.L.  
Place: Erandio - Spain  
Project: Development and maintenance of **virtual Assistant** “Sherpa” (Android).  
Skills: Android

Project: Migration of backend from VB.NET to JEE.  
Skills: JAVA, VB.NET, AWS, Git, SonarQube, Maven

11/2012 – 10/2013

**Consultant in Management of Virtual Infrastructures**

Company Name: BeClever S.L.  
Place: Bilbao - Spain

Performed different tasks simultaneously,

- Auditing of Software quality for the Gnos (company) monthly, using CheckKing QA (Optimyth).
- Write monthly reports on the status and **performance** of virtual environments (CDPs / private cloud) of Caja Laboral, Lagun Aro, University of Deusto and Vinco, using the application of Performance Monitoring Foglight (Dell).
- Maintenance of the CDPs (vCenter) of the University of Deusto and Vinco. Both CDPs use **VMware** technology, vRanger, NetBackup
- Development of the web page using JAVA (Hibernate, JSF) for “BeClever” itself.

03/2012 – 10/2012

**Software Engineer** .NET (Backend)

Company Name: Anboto Europe S.L.  
Place: Erandio - Spain  
Project: Bugs fixing and addition of new features to applications developed for internal use.  
Job: Junior Developer.  
Technology: **VB.NET**, MySQL, SVN  
Other tasks: Maintenance of the Virtual Infrastructure (development environment – VMware). Installation of "Nagios" to monitor the performance and availability of the production environment.

## Education

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2017 - 2020 Master in Computational Engineering and Smart Systems (Machine Learning)  
University of Pais Vasco (UPV/EHU – Bilbao, Spain)

2012 - 2013 Master in Software Development and Integration (Specialization: **JEE, Android**)  
University of Deusto (Bilbao - Spain)

2007 - 2012 **Software engineering** in management  
University of Deusto (Bilbao - Spain)

2004 - 2006 Higher Technicians in Development of **software** applications  
Elorrieta-Erreka Mari I.E.F.P.S (Bilbao - Spain)

## Technical Abilities

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Backend Programming languages:	Java, C#, Python
Frontend Programming languages:	Java Script, HTML5, CSS3
Frameworks:	Spring, Hibernate, Mybatis, JQuery
Application Server	WAS (Web Sphere), JBoss, Tomcat
Version Controls:	Git, SVN
Software quality, Application Monitoring (APM):	Optimyth- Checking QA, SonarQube, Nagios, Dell- Foglight
Databases:	DB2, MS SQL, MySQL, Azure tables
Virtualization, Data Storage, Backup:	VMware, AWS, Microsoft Azure EMC2 Clarion, NetBackup
Build Tools, Deployment tools:	Maven, Gradle, Jenkins, Azure Devops, GitOps
Cloud, Containerization	Azure, AKS, Docker. <b>AWS</b> certified <b>Solution Architect Associate</b>

## Additional

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- Proficient in Urdu/Punjabi (mother tongue), Spanish and English.
- Full current clean driving license.
- **EU** national.
- **AWS** certified **Solution Architect Associate**, **AWS** Certified Machine learning specialist
- Actively writing technical articles on AI, agentic systems, and software architecture  
→ Medium profile: <https://medium.com/@azamalis>

## Other Interest

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Volunteering and social work. I enjoy travelling, running, hiking — and writing about AI and software engineering topics.