

Hudhaifa Ahmed

CONTACT

Germany, Berlin

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SENIOR BIG DATA ARCHITECT

Summary:

10 years of hands-on experience in the field of Software Development, Architecture, System integration, OOP programming, Designing and Prototyping, Database designing and Specification creating.

Senior Software Solution Architect, Certified Cloudera Administrator CCA131 (Hadoop) and a Seasoned Big Data Engineer (Hadoop Ecosystem)

In depth knowledge designing highly scalable Spark-based IoT streaming applications based on Kafka, Spark Streaming, HBase.

Deep knowledge of Agile Approaches (SCRUM, DevOps, Clean Code), Deliver technical coaching for project members supporting their future development & career goals.

Core Skills

- **Programming:** Meets aggressive time lines with elegantly designed and detail attentive solutions.
- **Data Architect:** Experienced in designing data centric processes with an Occam's Razor based approach.
- **Project Driven:** Proven ability to work independently or in a team depending on project demands.

Development practice:

- Kanban, Scrum, Waterfall, SAFe
- CI/CD, Unit testing, TDD, Test automation

Technical expertise:

- Developing commercial applications on Kubernetes, Hadoop, JVM, Oracle, Linux, Docker and Cloud platforms
- Developing specifications and design solution documents for long term projects
- Deep and rich expertise on the languages: Java, C#, JavaScript, HTML/CSS, PHP

Management expertise:

- Establish strong working relationship with business, teammates, and others within organization
- Deep knowledge of Agile Approaches (SCRUM, DevOps, Clean Code), certified Product Owner and SCRUM Master
- Screening, Selecting & Hiring talent for internal and external customers (Coaching and retaining existing staff)

GitHub: <https://github.com/huthaifa-abd>

Game Development Blog: <https://blog.huthaifa-abd.com/>

WORK EXPERIENCE

Ultra Tendency, Germany

Aug 2017 — Present

Berlin Territory Manager & Senior Lead Big Data Developer

Company:

Ultra Tendency is an international System Integrator and consultancy dedicated to Big Data / Microservices / Streaming and Cloud Computing. We are providing innovative solutions to global and large enterprises. Ultra Tendency was founded in 2010 as a spin-off from the Institute of Distributed Systems at Magdeburg University.

Website: <https://ultratendency.com/>

Core Responsibilities:

Development, implementation, design solutions, architecture review, product management, pre-sales, technical leadership, recruiting, coaching, retention.

Other Responsibilities:

- Leveraging new and emerging practices for Enterprise Data Management utilizing Hadoop and Software-based Platforms.
- Ensuring excellent practices are utilized in delivering Big Data Management and Integration Solutions.
- Develop and Implement different strategies that drastically improve the performance of existing and new Big Data Solutions.
- Formulating and implementing risk mitigation strategies.
- Middleware Programming utilizing Java, Scala, Python
- Responsible for building and supporting a Hadoop-based ecosystem designed for enterprise-wide analysis of structured, semi-structured, and unstructured data
- Writing scalable and quality application code.

Achievements:

- Maintained a high level customer satisfaction across all clients engaged with.
- Implemented multiple large migration and new data systems deployments end to end.
- Deployed new streamlined event based near-realtime Engineering stack.
- Delivered multiple revenue impacting projects fixing numerous data quality issues.
- Designed, Implemented, and Deployed patent-able ML technologies into production at scale.
- Establish and maintain an engineering culture with Agile foundations.
- Enhance and improved database access and caching performance.
- Achieved internal goals of restructuring matrix organization and launched operations in a new geo from scratch.

Promotions Summary:

- Berlin Territory Manager & Senior Lead Big Data Developer - Jul 2021
- Regional Manager & Senior Lead Big Data Developer - Jun 2018
- Lead Big Data Developer - Jan 2018
- Big Data Developer - Aug 2017

Earthlink Telecommunications

July 2011 — Aug 2017

Research and Development Manager

Company:

EarthLink Telecommunications is the largest Internet Service Provider in Iraq. The company was founded in 2005 to provide communication services to home users, enterprises, and government-backed hundreds of points of presence distributed over every city and town in Iraq.

Website: <https://earthlink.iq/>

Core Responsibilities:

- Software Development, solution design, architecture review, market analysis, risk assessment & stakeholder management, recruiting, coaching, technical leadership, reporting, documentation, presales.

Other Responsibilities:

- Improve and renovate the research and development programs to meet organizational needs and to capitalize on potential new products.
- Helping senior management and internal clients to understand the results and implications of research and development initiatives.

- Selecting, supervising, training and directing the work of Research and Development staff
- Introduce and embrace the open source culture by encouraging the use open source software and migrating critical solution successfully to open source alternatives openstack / ceph.

Achievements:

- Increase employee engagement by over 150% in a period of 1 year by providing a competitive environment.
- improve project management process by integrating CI / CD tools to achieve efficient well written solutions (Rundeck, Redmine , Gitlab).
- Renovated most of the company VAS services to be more in compliant with current needs that lead to 50% more engagement.
- Lead the third party solution development by taking initiative to advertise the company products and to coordinate with clients to provide the most satisfaction possible.
- Improved the hiring process by 80% using dedicated recruitment tools and interviewing skills to elect the best talents possible.
- Decreased software deployment costs by applying automated integration / automated deployment tools saved over 16+ Hours for each deployment.
- Reduce hardware resource usage significantly by planning / developing / deploying cloud technologies to save on resource and improve the solution performance.
- Improve Solution up-time by implementing software monitoring tools and applying feasible threshold for the services , providing maintenance documents to quickly resolve issues.

Promotions Summary

- Jan 2013 - Promoted to Senior Developer
- May 2014 - Promoted to Lead Developer
- Feb 2015 - Promoted to Research And Development Manager

PROJECTS

Company: Ultra Tendency, Germany (Aug 2017 - Present)

Role: Berlin Territory Manager & Senior Lead Big Data Developer

Responsibility

Development, implementation, design solutions, architecture review, product management, pre-sales, technical leadership.

Delivered Projects:

- **NDA Project Code-Name: Sky High**
 - **Full Stack Lead Developer (Product Owner / Architect) :** Java, SpringBoot, Microservices, Kubernetes, Docker, Spark, Kafka, NiFi, Kerberos, Camunda, React, Jupyterhub, RStudio, .Net, Hadoop, Impala, Hive, Hbase, Maven, TLS, Gitlab, CI/CD, Helm Charts, Jira, Confluence.
- **NDA Project Code-Name: Red Firefly**
 - **Technical Lead / Senior Big Data Developer:** IoT, Azure, SCRUM, Hadoop, SpringBoot, Kubernetes, Microservices, Cloudera, Altus, Databricks Aure, Sonarqube, Apache Flume, Apache Kafka, Anisble, Terraform , Data Connector, Data Broker, Jira, Confluence.
- **NDA Project Code-Name: Iron Fist**
 - **Senior Big Data Developer:** System Migration, Large Scale Cloudera Clusters, Security Hardening, Ansible, Puppet, Administration, Telematic Streaming, Kafka , Spark, HBase, TomTom API, Jira, Confluence.

- **NDA Project Code Name: Black Belt**
 - **Big Data Developer:** Telematic Spark Streaming, Kafka, HBase, ETL Pipelines, Impala, Hive, Spark 2.2 Structured Streaming, Jira, Confluence.
- **NDA Project Code-Name: Red Stone**
 - **Big Data Developer:** Spark, Graph-Analytics, GraphX, GraphFrames.
- **NDA Project Code Name: Big Diamond**
 - **Big Data Developer:** ETL Pipelines, Parquet, Implala, Spark Batch, Spark Streaming - Kafka, SASL_SSL.
- **NDA Project Code-Name: Blue Wahle**
 - **Devops Engineer:** Cloudrea, Hadoop, Pupper, Foreman, Ansible, Jira, Confluence.

Other Public UT Projects:

<https://ultratendency.com/references/>

Company: Earthlink Telecommunication (July 2011 - August 2017)

Role: Research and Development Manager

Responsibility:

Development, implementation, design solutions, architecture review, product management, pre-sales, technical leadership.

Delivered Projects:

- **On-Premise Cloud Solutions [Openstack]** (2014), Openstack , Qemu , KVM , CEPH , Puppet , Apache , Python ,Foreman , Fuel , Chef
- **LMS Manifest System** (2013) : Commodity Manifests Management System (Multinode-Web Application), ASP.NET , C# , HTML, AJAX , JQuery , CSS , MSSQL , LINQ , MVC , Telerik Tools , IIS
- **Zain DOS System** (2012) : Advance Ticketing and Billing System For Mobile Telecommunication Company, ASP.NET , C# , HTML, AJAX , JQuery , MSSQL , MVC , CSS , IIS
- **Multiplayer Gaming System** (2011) : Game Sever Manager - Advanced Gameing Protal (ISP Grade) ASP.NET , C# , HTML, AJAX , JQuery , MSSQL , MVC , CSS , UDP Networking Protocols , Game Server APIS [Counter Strike , COD4 , MW4 , GTAV] , Powershell , IIS
- **Human Resource Management System - HR** (2013) : Ministry of education Human Resource Solution ASP.NET , C# , HTML, AJAX , JQuery , MSSQL , MVC , CSS , Telerik Tools , IIS
- **TV Streaming Service Web Application** (2012) : ASP.NET , C# , HTML, AJAX , JQuery , MSSQL , MVC , CSS , Telerik Tools , VLC Streaming Services , IMDB Third-party APIS , Mobile API Web-services , IIS
- **Content Management System** (2013) With Customized Features : ASP.NET , PHP , C# , HTML, AJAX , JQuery , MSSQL ,MYSQL , MVC , CSS , Telerik Tools ,APACHE , IIS
- **Employee Identification Card Module** (2013) : ID Management Module for existing HR Solution ASP.NET , C# , HTML, AJAX , JQuery ,MSSQL, MVC , CSS , Telerik Tools , IIS
- **Event Registration - Chinese Embassy** (2014) : Dynamic Event Registration Portal Allows users to book for events and review current events schedule, ASP.NET , C# , HTML, AJAX , JQuery ,MSSQL, MVC , CSS , Telerik Tools , IIS
- **SCIS Ticket System** (2014) Advance Help-desk - Ticketing Solution , ASP.NET , C# , HTML, AJAX , JQuery ,MSSQL, MVC , CSS , Telerik Tools , IIS , LINQ , Entity Framework
- **Ministry of education Document Tracking System** (2013) : ASP.NET , C# , HTML, AJAX , JQuery ,MSSQL, MVC , CSS , Telerik Tools , IIS , LINQ , Entity

Framework

- **Hajj&Omrah Event Registration System** (2013) : Dynamic Event Registration Portal Allows users to book for events and review current events schedule , ASP.NET , C# , HTML, AJAX , JQuery ,MSSQL, MVC , CSS , Telerik Tools , IIS , LINQ , Entity Framework
- **Demo Web Application For Ministry of Foreign Affairs As Part of (E-government System)** (2012) Advanced Document Tracking And Ticketing Solution , ASP.NET , C# , HTML, AJAX , JQuery ,MSSQL, MVC , CSS , Telerik Tools , IIS , LINQ , Entity Framework
- **Siemens DROS System** (2013): Advance Ticketing / Billing Solution , ASP.NET , C# , HTML, AJAX , JQuery , CSS , MSSQL , LINQ , MVC , Telerik Tools , IIS
- **EGovernment Centralized Archiving Solution** (2013): Thin Clients, Windows Server , DC , RODC , VDI ,ASP.NET , C# , HTML, AJAX , JQuery , CSS , MSSQL , LINQ , MVC , Telerik Tools , IIS,Powershell , Entity Framework , Winforms
- **Unified ID Management Solution** (2013), ASP.NET , C# , HTML, AJAX , JQuery ,MSSQL, MVC , CSS , Telerik Tools , IIS , LINQ , Entity Framework
- **Human resource Management Solution** (2014), A Centralized solution to satisfy company HR needs , ASP.NET , C# , HTML, AJAX , JQuery ,MSSQL, MVC , CSS , Telerik Tools , IIS , LINQ , Entity Framework
- **Help Desk System (Web Application)** (2013), Fully Fledged Help Desk solution with ticket tracking and advance reporting features , ASP.NET , C# , HTML, AJAX , JQuery ,MSSQL, MVC , CSS , Telerik Tools , IIS , LINQ , Entity Framework
- **Employee Management System** (2013): web application that is responsible for collecting all information about organization employee and generate reports and data based on employee salaries and duties the system includes three level of administration with easy to use data entry system and report generation , C# , HTML, AJAX , JQuery ,MSSQL, MVC , CSS , Telerik Tools , IIS , LINQ , Entity Framework
- **Call Center Manager** (2013), A Dedicated software solution to manage call center ip phones , and schedule employee assignments , C# , WPF ,MSSQL, MVC , Telerik Tools , Windows Services
- **Conference Management System** (2014) : a cross platform conference management solution with file sharing capabilities and desktop streaming along with a dedicated voting system , MSSQL , WPF , IIS , ASP.NET , Telerik Tools

Open Source Projects

- **Mesh Optimization System** - An Enterprise solution to optimize complex architecture models for use on desktop and mobile devices.
 - URL: <https://github.com/huthaifa-abd/Cloud-Mesh-Optimization-System>
- **Talent Recommendation Engine** - A Map Reduce Java application to crunch job posting data into a meaningful information and providing matching rates.
 - URL: <https://github.com/huthaifa-abd/Talent-Recommendation-Engine-Using-Hadoop>
- **Laggards** In a fierce battle for resourced of a foreign planet, two factions battle each other with humanoid robo-soldiers in this card-based Battle Arena game.
 - URL: <https://github.com/Thanduriel/laggards>
- **Project Nightowl:** Nightowl is an intelligent surveillance tracking system utilizing IoT / Bigdata Technologies.
 - <https://github.com/huthaifa-abd/Project-Nightowl>

Other Projects.

- **3D Now [Augmented Reality Project]** (2011) - BC Graduation Project : The purpose of the project is to utilize the latest image processing technologies to build rich learning experience by integrating augmented objects into the learning material , to have bigger impact on students , Adobe Flash , Papervision3D , 3ds

Max , Photoshop , Actionscript 3 , Adobe AIR

- **Ace Combat Mini [Java 2D Game]** (2011): A top down arcade space shooter game contains 3 levels and has the player fight massive bosses through the different landscapes , Java J2ME
- **Speedix [Mobile Space Game]** (2012): fast-paced mobile shooter game , C# , Unity Engine , 3D/2D Art Tools

TECHNOLOGIES

Big Data / Hadoop

- Apache Hadoop, Apache Spark, Apache Hive, Apache HBase, Apache Kafka, Apache Oozie, Cloudera Impala, Cloudera Hue, Cloudera Manager, Apache Ambari.
- Hadoop high availability (NameNode HA, Resource Manager HA, HiveServer2 MetaStore Server HA, Impala Load Balancing, Oozie Load Balancing)
- Hadoop security & hardening (Kerberos, TLS, Redaction, Cluster LAN)
- Hadoop operations (replication, backup, maintenance, hardware replacement, version upgrades)
- Cluster sizing, cluster layout, cluster hardware specification
- Lambda Architect Utilizing (Kafka-Spark-Hbase)
- Kappa Architect Utilizing Kafka-Spark
- Stream-Analytics & Realtime-Processing using Spark Streaming
- Spark-Performance, Spark-Kafka-Direct Streams
- Spark2
- Ingest using Flume / NiFi
- Job-Scheduling using Oozie

Cloud Computing / Cloud Automation

- AWS, Azure, Datalake, Terraform, Openstack, Foreman, VSphere, KVM, Windows VDI, CEPH, Ansible, Chef, Puppet.

Containerization / Devops / CI/CD

- Docker and Kubernetes
- OS Deployment And Server Administration: Windows Server 2008 - 2012, TFS, DC, Microsoft Exchange Server, Ubuntu Server 12.4, Cloud Computing, Centos 6.5 - 7, RHEL
- Web Servers Administration And Maintenance: IIS 6-7, Apache, Nginx

Security & Authentication

- Active Directory & Kerberos Hadoop integration, OAuth 2.0, JWT

Project Management

- JIRA, Redmine, Jenkins, Git, SVN

Software Development

- RESTful Microservices Development: Spring Boot Framework, Java, Maven, SBT
- Web Development : Asp.net [C#- VB], PHP5, Javascript, JAVA, Ruby, CSS3, HTML5
- Desktop Application Development : C++, Java, C#, VB, Ruby
- Windows Development Frameworks: Net, WPF, Winforms
- Web Applications Development Frameworks: ASP.net, MVC, Entity Framework, CakePhp, CodeIgniter, Drupal, Wordpress
- Mobile Applications Development: Android, IOS, PhoneGap
- CMS/Ecommerce Systems: Wordpress, Drupal, Magento, Opencart
- Database Management systems: HBase, Oracle, DB2, MongoDB, MySql, MSSQL.

Marketing Graphic Desing & Game Development Skills

- Graphic Design Applications: Photoshop, 3ds Max, Zbrush , After Effect, Adobe Flash, Adobe Dreamweaver, Gimp, Blender, Topogun, Keyshot, Substance Designer, Substance Painter
- Game Engines: UDK, Unity, GameMaker, UE4

Tikrit University

3D Now [Augmented Reality Project] (2011) - BC Graduation Project : The purpose of the project is to utilize the latest image processing technologies to build rich learning experience by integrating augmented objects into the learning material , to have bigger impact on students , Adobe Flash , Papervision3D , 3ds Max , Photoshop , Actionscript 3 , Adobe AIR.

INTERESTS

- Travel to share knowledge on conferences, meetups, podcasts, workshops, mentorship, etc.
- Enjoy solving complex IoT / BigData problems.
- Figure out best&worst practices (by asking "Why?"), and publishing them at Professional Blog and Game Development Blog
- Cloud Computing, Hadoop, Big Data Analytics, Internet of Things, Data Warehouse, Business Intelligence, Cross Platform Enterprise Software Development, Distrusted Storage Solutions, Process Automation, CMS/Ecommerce Systems, System Administration, Database Management.

REFERENCES

References available upon request.