

HAIDER ALI CHAUDHARY

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PROFILE SUMMARY

- Senior Software Engineer with 11+ years of experience designing, developing, and modernizing large-scale enterprise platforms, high-availability systems, and mission-critical digital solutions across public safety, financial services, and retail/eCommerce domains.
- Currently working on the nationwide Ministry of Interior (MOI 911) emergency response platform in Saudi Arabia under Hexagon Safety & Infrastructure (USA) and Atheeb Integrated Solutions Company (KSA), contributing to the development, modernization, integration, and operational reliability of the Intergraph Computer-Aided Dispatch (I/CAD) ecosystem supporting mission-critical emergency operations across the Makkah region.
- Strong expertise in C#, .NET Framework/.NET Core, RESTful APIs, SQL Server, Microservices Architecture, AWS, cloud-integrated systems, and enterprise application modernization.
- Experienced in transforming legacy SOA applications into scalable microservices platforms, implementing API gateways, event-driven systems, secure third-party integrations, and multi-threaded worker services for high-volume enterprise environments.
- Led multiple enterprise integrations including SRCA ambulance services, AML location services, NIC live location integrations, CID systems, Milestone video event integrations, SMS platforms, 911 unified authentication systems, and operational analytics solutions for MOI 911.
- Founder and Product Owner of a Retail Management System (RMS) platform since 2012, focused on POS, inventory management, Shopify/eCommerce integrations, and microservices modernization using .NET, RabbitMQ, YARP API Gateway, and AWS cloud infrastructure.

TECHNICAL EXPERTISE

PROGRAMMING & FRAMEWORKS	C#, .NET Framework, .NET Core/.NET 8+, ASP.NET MVC, JavaScript, TypeScript, React, jQuery, HTML, CSS, Bootstrap
BACKEND & API DEVELOPMENT	RESTful APIs, Microservices Architecture, Event-Driven Architecture, RabbitMQ, YARP API Gateway, OAuth, API, Integrations, Multi-Threaded Worker Services
DATABASE & DATA ENGINEERING	MS SQL Server, MySQL, Oracle, T-SQL, Stored Procedures, Query Optimization, Indexing, Database Design, Performance Tuning
CLOUD & DEVOPS	AWS EC2, IIS Hosting, SSL/HTTPS Configuration, Cloud Infrastructure, Windows Server Administration, VMware
ECOMMERCE & INTEGRATIONS	Shopify API Integration, Inventory Synchronization, Product Synchronization, Webhooks, GIS Integrations, SMS Integrations, Milestone VMS Integrations
SOFTWARE ARCHITECTURE & TOOLS	SOA to Microservices Modernization, Scalable Distributed Systems, Visual Studio, VS Code, Git, TortoiseSVN, Agile/SCRUM, Jira, Bitrix

EXPERIENCE

SENIOR SOFTWARE ENGINEER

MINISTRY OF INTERIOR 911, SAUDI ARABIA

HEXAGON SAFETY & INFRASTRUCTURE (USA) / ATHEEB GROUP (KSA)

(OCT 2017 – Present)

Working on the nationwide Intergraph Computer-Aided Dispatch (I/CAD) platform supporting mission-critical MOI 911 emergency response operations across the Makkah region. Contributing to the development, modernization, integration, deployment, and operational reliability of large-scale emergency management systems and enterprise integrations.

Responsibilities:

- *Leading development, deployment, support, and modernization of the Intergraph I/CAD platform for MOI 911 emergency operations.*
- *Modernized legacy SOA-based dispatch applications into scalable microservices architecture using .NET Core, RESTful APIs, ISM interfaces and YARP API Gateway.*
- *Designed and developed enterprise-grade integrations with multiple government entities including the Saudi Red Crescent Authority (SRCA), National Information Center (NIC), National Center for Security Operations (NCSO), Central Incident Database (CID), GIS tracking systems, Advanced Mobile Location (AML) services, SMS notification platforms, and emergency response systems.*
- *Developed and optimized multi-threaded Worker Services handling high-volume concurrent event processing (~20-50 parallel threads) for real-time CID and SRCA incident workflows, emergency response coordination and mission-critical operations.*
- *Integrated Milestone VMS image/video event services into I/CAD to support real-time surveillance event processing and emergency response coordination.*
- *Developed and maintained a centralized OAuth-based authentication and API communication service enabling secure, reliable, and standardized integration between MOI 911 and multiple external governmental agencies and enterprise systems.*
- *Designed and maintained the 911Auth authentication microservice responsible for token management, user authentication, API security, centralized access control, and secure inter-service communication across the MOI 911 ecosystem.*
- *Engineered RESTful APIs and backend services supporting emergency dispatch operations, live tracking, incident management, GIS services, and operational reporting.*
- *Designed and optimized SQL Server databases, stored procedures, indexing strategies, and query performance tuning for high-volume enterprise systems.*
- *Developed operational dashboards, logging infrastructure, monitoring tools, and analytical reporting solutions to improve system observability and operational visibility.*
- *Collaborated with Hexagon global engineering teams, project managers, MOI stakeholders, and multidisciplinary teams to deliver scalable, secure, and high-availability enterprise solutions.*
- *Supported production deployments, troubleshooting, environment stabilization, and operational continuity during high-pressure emergency operations and large-scale public events, including **Hajj and the holy month of Ramadan in Makkah.***

Key Enterprise Integrations & Platforms

- *Intergraph Computer-Aided Dispatch (I/CAD) Platform*
- *Saudi Red Crescent Authority (SRCA) Ambulance Dispatch Integration*
- *National Information Center (NIC) Caller Information, Vehicle & GIS Integration*
- *Advanced Mobile Location (AML) Emergency Location Services*
- *National Center for Security Operations (NCSO) SMS & Emergency Communication Integration*
- *Central Incident Database (CID) Incident & On Ground Unit Tracking Integration*
- *Milestone Video Management System (VMS) Image/Video Event Integration*
- *Unified 911Auth Authentication & OAuth Token Management Service*
- *Multi-Threaded SMS Scheduler & Automated Reporting Platform*
- *Business Intelligence (BI), Operational Dashboards & Centralized Logging Platform*
- *Real-Time GIS Tracking & Emergency Response Coordination Services*
- *RESTful APIs, ISM Interfaces & Government System Integrations*

SOFTWARE ENGINEER

Argaam (KSA), Danat eVentures (UAE)

(NOV 2014 – OCT 2017)

Dedicated three years contributing to the implementation and enhancement of a Paid Financial Portal, establishing it as a leading financial intelligence provider in the Arab world. Successfully developed and deployed real-time financial data, financial reports, stock markets, sectors, trading data, financial ratios, IPOs, interactive charts and feeds tailored to a broad regional audience, amassing around a million users. The portal specifically focused on Saudi Arabia and offered comprehensive coverage of the seven GCC stock markets.

Responsibilities:

- *Involved in the development of powerful financial engines and modules.*
- *Designed, developed and implemented applications that support day-to-day operations.*
- *Provided innovative solutions to complex business problems.*
- *Involved in the development and architecture of the project life cycle.*

- Developed solutions to improve the performance and capabilities of systems.
- Wrote quality source code to be delivered on time, which meets defined project standards and deadlines.

Key Platforms & Projects

- Argam Financial Portal
- Argam Plus
- Gulf Argam
- Akhbaar24
- Sports 24

Technical Skills: ASP.NET, MVC/C#, JQuery, Ajax, HTML/CSS, MS SQL Server, PetaPoco, TortoiseSVN, AWS.

PRODUCT OWNER & FULL STACK ENGINEER

RETAIL MANAGEMENT SYSTEM

(JAN 2012 – PRESENT)

Founded and continuously evolved the RMS platform as a long-term technology innovation initiative focused on modern enterprise architecture, microservices transformation, scalable system design, cloud-native technologies, and continuous adoption of emerging technologies. Led full-stack development, backend architecture, frontend development, integrations, cloud deployments, and modernization initiatives across retail, POS, inventory management, and eCommerce domains.

Responsibilities & Achievements

- Architected and developed a complete Retail Management System (RMS) platform supporting POS, inventory management, customer management, promotions, loyalty programs, reporting, delivery zones, gift cards, digital receipts, and web cashier operations.
- Led modernization of the RMS platform from legacy monolithic architecture into scalable microservices architecture using .NET Core, RESTful APIs, RabbitMQ, and event-driven communication patterns.
- Designed and implemented Shopify integration services supporting product synchronization, inventory synchronization, order workflows, variant management, product image synchronization, and webhook-based event processing.
- Developed scalable backend APIs and integration services using C#, ASP.NET MVC, .NET Core, SQL Server, and YARP API Gateway.
- Implemented RabbitMQ-based asynchronous communication and planned Transactional Outbox architecture for reliable event publishing and inter-service communication.
- Participated in AWS infrastructure migration activities including deployment optimization, environment configuration, IIS hosting, SSL/HTTPS configuration, DNS updates, and production environment stabilization.
- Designed and optimized SQL Server databases, stored procedures, indexing strategies, synchronization workflows, and performance tuning for high-volume retail operations.
- Managed cloud-hosted environments on AWS EC2 and IIS for backend APIs, synchronization services, and operational systems.

Key Platforms & Projects

- Retail Management System (RMS)
- Shopify Integration Platform
- POS & Inventory Management Platform
- Multi-Channel Product Synchronization Services
- Web Cashier & Reporting Platform

Technologies Used: C#, .NET Framework, .NET Core/.NET 8+, ASP.NET MVC, RESTful APIs, RabbitMQ, YARP API Gateway, SQL Server, AWS EC2, IIS, JavaScript, jQuery, Bootstrap, HTML/CSS, DataTables, Shopify APIs, Microservices Architecture, Event-Driven Architecture

EDUCATION

Comsats Institute of Information & Technology, Pakistan
Bachelors of Computer Science

2007 – 2012

REFERENCE

Available on demand