

AMMAR MUTAHAR SALEH AL-ASHMORI

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AI-DRIVEN TECHNOLOGY LEADER | SOFTWARE ARCHITECT | DIGITAL TRANSFORMATION EXPERT



Software Development || Scalable Systems Architecture || Cloud-Native Development || Microservices Security || High Availability Systems || API Performance Tuning

Distributed AI Systems & RAG || Scalable Cloud-Native Architecture || Enterprise Microservices & GenAI Orchestration || High-Availability Infrastructure || API Performance & Intelligent Automation

Strategic AI & Tech Innovator ~ High-Impact Solution Architect ~ Adaptive Team Leader ~ Collaborative Engineering Mentor ~ Data-Driven Decision Maker ~ Agile Champion

Passionate about architecting and deploying scalable, high-performance software and AI-augmented solutions that accelerate business growth. Expert in designing resilient, cloud-native microservices and intelligent systems—utilizing RAG, n8n, Temporal, and Google Conversational Agents—to modernize legacy workflows and drive seamless digital transformations.

Seeking a strategic technology leadership role to deploy deep expertise in scalable cloud systems, AI orchestration, and advanced backend engineering. Aiming to empower forward-thinking engineering teams to deliver secure, high-availability platforms that directly align technical execution with overarching enterprise goals.

PROFILE SUMMARY

A visionary Software Engineering Leader with 14+ years of experience specializing in high-performance backend architecture, cloud-native infrastructure, and intelligent systems. Expert in architecting and refactoring distributed platforms using Golang, Python, Node.js, and C#, integrated with PostgreSQL, MongoDB (Auto-Embedding Indexes), Elasticsearch, and Solr.

Proven track record in deploying scalable AWS/GCP infrastructure, migrating legacy systems to Go, and driving continuous integration with ArgoCD. Technically proficient in the modern AI ecosystem, including RAG, CodeBERT, CX Agent Studio, and conversational agents, while leveraging Kafka, Debezium, n8n, and Temporal for event-driven systems. A strategic mentor and problem solver adept at aligning team execution with operational excellence, security, and enterprise business goals..

KEY ROLES & RESPONSIBILITIES

- Architecture & Scalable System Design:** Architect robust, event-driven microservices using **Golang, Node.js, and Python** to eliminate legacy technical debt, optimize service orchestration, and boost overall system efficiency.
- Cloud-Native & GitOps Infrastructure:** Engineer highly available platforms on **AWS and GCP** using Kubernetes and ArgoCD for GitOps automation, maintaining a 99.9% uptime standard.
- Intelligent API & AI Orchestration:** Build low-latency APIs featuring advanced security, while driving smart automation with **n8n** and integrating conversational **RAG architectures, MessageBird, and CX Agent Studio** to enhance customer engagement.
- Search Optimization & Data Strategy:** Maximize real-time data synchronization using **Kafka, Debezium, and Temporal**, while optimizing search retrieval speeds with **Elasticsearch, Solr, and MongoDB Auto-Embedding Indexes**.
- DevOps & Digital Transformation:** Accelerate Agile workflows and CI/CD pipelines by integrating **Testmo** for automated QA, leveraging **CodeBERT** for code quality, and refactoring legacy systems to high-performance Go microservices.
- Technical Leadership & Mentorship:** Lead and upskill cross-functional engineering teams, implementing code review standards and aligning technology roadmaps directly with strategic business objectives.

FUNCTIONAL SKILLS

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| ○ Generative AI & Intelligent Agents: Retrieval-Augmented Generation (RAG), CX Agent Studio, Google Conversational Agents. | ○ CI/CD Pipelines: Jenkins, GitLab CI/CD, DevOps Collaboration. |
| ○ AI-Assisted Development & Automation: CodeBERT for code analysis, n8n for intelligent workflow automation. | ○ Version Control Systems: GitLab, GitHub, Bitbucket. |
| ○ Event-Driven Systems & Data Streaming: Kafka, Debezium (Change Data Capture mechanisms), Temporal. | ○ Strategic Technology Planning: Technology Roadmap Execution, System Refactoring & Migration Strategies. |
| ○ Search Optimization & Indexing: Elasticsearch, Solr, MongoDB Auto-Embedding Indexing. | ○ Business & Stakeholder Collaboration: Aligning technology with core enterprise objectives. |
| ○ Advanced Backend Development: Golang, Python, Node.js, PHP, C# .NET. | ○ Team Leadership & Mentorship: Cross-Functional Team Management, Agile & Scrum Methodologies. |
| ○ Backend Frameworks: NestJS, Express.js, Laravel, Yii. | ○ Project Management & Tools: Jira, Trello, MS Project, Advanced SDLC Management. |
| ○ Cloud Platforms: Google Cloud Platform (GCP), Amazon Web Services (AWS). | ○ Software Architecture: Scalable Systems Architecture, Microservices, Domain-Driven Design (DDD), Clean Architecture, Onion Architecture. |
| ○ Containerization & Orchestration: Kubernetes, Docker. | ○ Design & Architectural Patterns: Event-Driven Architecture (EDA), CQRS, MVC. |
| ○ Infrastructure as Code (IaC) & Automation: Terraform / Ansible (IaC), ArgoCD. | |

WORK EXPERIENCE

Service Parts Logistics (Pty) Ltd, Johannesburg, South Africa (Remotely, Part-time)

IT Development Contractor

March 2026 – Present

Job Profile: Developed AI-driven backend systems focused on intelligent product processing, semantic search, and automation workflows. Designed scalable microservices, integrated Large Language Models (LLMs), and built data pipelines for categorization, retrieval, and enrichment of technical product information using modern AI technologies and containerized infrastructure.

- *Architected a parts catalog platform with normalized taxonomy, enriched attributes, and AI-based classification.*

- Developed GPT-5 and RAG-powered solutions for intelligent search, product discovery, and document retrieval.
- Engineered prompt pipelines and LLM workflows to improve classification accuracy and domain understanding.
- Built data pipelines consolidating multi-source product data into PostgreSQL with vector embedding support.
- Implemented semantic search and vector embeddings for intelligent product and PDF retrieval.
- Developed scalable Docker-based microservices for AI and backend workflows.

iCar Asia Limited (Powered by CARSOME), Kuala Lumpur, Malaysia

Senior Software Engineer 1

Feb 2025 – Jun 2026

Software Engineer

Oct 2022 – Jan 2025

Job Profile: Optimized backend microservices using Golang, Node.js, PHP, C# to enhance scalability and reliability. Led API integrations for real-time data handling, improving chatbot and marketplace functionalities. Migrated and refactored legacy systems (PHP to Golang), reducing technical debt and improving performance. Implemented caching and search optimizations with Redis, Solr, and Elasticsearch, accelerating data retrieval and enhancing user experience. Spearheaded Docker migration, automating workflows and cutting infrastructure.

- Engineered scalable microservices, enhancing backend efficiency and fault tolerance by 99.9%.
- Optimized API response times using heuristic search and indexing, improving performance.
- Led Docker migration, streamlining deployment and reducing infrastructure costs by 50%.
- Revamped vehicle services from PHP to Golang, increasing system reliability.
- Integrated Carsome & iCarAsia platforms, ensuring seamless data synchronization.
- Deployed Redis caching, reducing database load and enhancing application speed.
- Developed event-streaming with Kafka and Debezium for real-time updates.
- Enhanced search functionality with Solr and Elasticsearch, improving retrieval accuracy.
- Expanded vehicle listing features, boosting marketplace engagement and visibility by 100%.
- Collaborated cross-functionally with backend, frontend, and Autohive teams for system enhancements.

Kamaram Industry & Investment Co., Sana'a, Yemen

Jul 2017 – Feb 2020

IT Manager

Job Profile: Enhanced IT systems and infrastructure by implementing strategic upgrades, policies, and best practices to improve efficiency and compliance. Led major IT projects, including system migrations and upgrades, ensuring seamless operations with minimal disruptions. Optimized resource allocation and managed budgets effectively, driving cost savings and performance improvements.

- Implemented VPN connectivity to replace MPLS, significantly reducing operational costs.
- Reconstructed head office network and centralized internet services for better efficiency.
- Migrated critical servers to VMware, enhancing system performance and scalability by 70%.
- Led ERP implementation across branches, ensuring seamless adoption and user training.
- Boosted IT department productivity by restructuring teams, adopting Trello, and refining processes.

Nettium Sdn Bhd, Kuala Lumpur, Malaysia

Jun 2015 – May 2017

Software Engineer (.Net Developer, C# Developer)

Kamaram Industry & Investment Co (formerly National Tobacco & Matches Co), Sana'a, Yemen

IT Manager Assistant

Jul 2012 – Jun 2014

Software Developer (C# Developer, Java Developer)

Jul 2008 – Jun 2012

Help Desk

Apr 2002 – May 2005

EDUCATION

- PhD Degree – IT, Universiti Teknologi PETRONAS (UTP) | 2024
- MSc – Software Engineering, Staffordshire University (UK) with the cooperation of Asia Pacific University | Mar 2017
- BSc – Computing, Oxford Brooks University (UK) with the cooperation of Nilai University | June 2008

PROFESSIONAL CERTIFICATIONS

- Microsoft Specialist - Programming in HTML 5 with JavaScript and CSS3, Microsoft, Malaysia, Nov 2015
- Microsoft Certified Technology Specialist - Net Framework 4, Web Applications, Microsoft, Malaysia, Oct 2015
- Programming in C#, Microsoft, Malaysia, Sep 2015
- Microsoft Certified Professional, Microsoft, Malaysia, Sep 2015
- Certified Solution Designer – Rationale Software Architect, IBM, Malaysia, Apr 2014

CERTIFICATIONS & CONTINUOUS LEARNING

- Go: The Complete Developer's Guide (Golang) (Udemy, April 2025): Deepened Go programming expertise, covering advanced concurrency patterns, structuring large-scale Go applications, testing, and API development.
- ASP.NET Core 8 Web API: Clean Architecture + Azure Services (Udemy, April 2025): Mastered building scalable .NET Core Web APIs with Clean Architecture principles, integrated with Azure services like Blob Storage and Service Bus.
- GCP Fundamentals for Beginners (Udemy, March 2025): Gained an understanding of key GCP services, including compute, storage, networking, IAM, and AI/ML. Explored cloud deployment strategies, security best practices, and use cases through hands-on demos.
- NestJS in Practice with MongoDB (Udemy, March 2025): Mastered NestJS for backend development, including REST API design, MongoDB integration, authentication, RBAC, data validation, and scalable architecture patterns.
- .NET Microservices: CQRS & Event Sourcing with Kafka (Udemy, Jan 2025): Mastered event-driven microservices using CQRS, Kafka, and Event Sourcing for scalable architectures.
- DevOps, CI/CD (Continuous Integration/Delivery) for Beginners (Udemy, Aug 2024): Gained hands-on experience in CI/CD pipelines, Jenkins, GitLab CI/CD, Docker, and deployment automation.