OMRAN MOGBIL

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Software Architecture | Cloud-Native Systems | DevOps (CI/CD, IaC) | Sitecore DXP | Microservices | Kubernetes | Agile & SAFe | Technical Leadership

Summary

Forward-thinking **Software Architect and Technical Leader** with over **16 years of experience** in designing and developing **scalable**, **secure, and cloud-native** enterprise applications. Expert in **leading cross-functional teams**, **architecting microservice-based solutions,** and driving **cloud transformations** using **Azure, Kubernetes,** and **modern DevOps practices.** Proven track record delivering high-impact digital platforms across **financial services, government, and digital marketing** sectors.

Technical Skills Summary

AREA	SKILLS & TOOLS
ARCHITECTURE & ENGINEERING	Microservices, Monolith-to-Microservices Migration, Event-Driven Architecture, Domain-Driven Design (DDD), Sitecore, Headless CMS, Composable DXP
CLOUD & DEVOPS	Microsoft Azure, Kubernetes (AKS), Docker, Azure DevOps, GitHub Actions, ARM Templates
PROGRAMMING	C#, .NET (Core & Framework), JavaScript, TypeScript, React, Next.js, Node.js
DATABASES	SQL Server, Oracle, MongoDB, Redis
SECURITY	OAuth2, OpenID Connect (OIDC), JWT, Cloud Security Best Practices, OKTA, Azure B2C, Microsoft Entra
LEADERSHIP & DELIVERY	Team Mentorship, Stakeholder Management, Agile (Scrum, SAFe), CI/CD Enablement

Professional Experience

Senior Team Lead / Solution Architect | TechGuilds Consulting Inc. – Canada | *May 2022 – Present*

As a Senior Team Lead at a specialized Sitecore consultancy, I oversee the delivery of digital platforms across multiple enterprise clients. I simultaneously lead 3–4 client engagements using

flexible, cross-functional teams composed of in-house developers, QAs, support engineers, and contractors. I work in close collaboration with Account Managers and Project Managers to align technical execution with evolving business needs, supporting both current operations and long-term digital strategies.

Core Responsibilities: My role combines **solution architecture**, **hands-on development**, **DevOps enablement**, and client engagement. I design, develop, and maintain Sitecore DXP implementations across **Azure PaaS**, **Kubernetes (AKS)**, and hybrid infrastructures. I lead the development of modern, composable **front-ends using .NET, React, Next.js**, and Sitecore JSS, following **clean coding principles** and Sitecore Helix standards.

I **architect complex integrations** with identity providers (Azure B2C, MS Entra ID, Auth0, Okta), search services (Coveo, SearchStax), marketing automation platforms (Eloqua, ClickDimensions), email services (Mailgun, SendGrid), web governance and SEO platforms (SiteImprove, Monsido), and API ecosystems (REST and GraphQL). I establish robust observability through Azure Application Insights, Prometheus, Grafana, and Azure Monitor, supporting 24/7 operational readiness. I implement Azure CI/CD pipelines with zero-downtime strategies such as blue-green deployments to improve release quality.

AI-Powered SaaS Platform - Kajoo.ai: In parallel, I **lead the technical architecture** and **DevOps** for Kajoo.ai, an **AI-powered SaaS platform** delivering frontend-as-a-service capabilities through a low-code/no-code interface. As the Subject Matter Expert (SME) for CMS integrations, I **design and lead the implementation of extensible connectors** between Kajoo and multiple enterprise CMS platforms using patterns such as **Abstract Factory**, enabling modular, pluggable integration layers with standardized APIs across tenants.

I **re-architected the platform into a containerized, microservice-based solution** running on **Kubernetes** (DigitalOcean), adopting **Domain-Driven Design** (DDD) and **API Gateway** patterns. I introduced customized GitFlow, **implemented full CI/CD pipelines** with **Azure DevOps**, and delivered Infrastructure-as-Code (IaC) to support rapid provisioning of feature-branch environments — improving team velocity by 40% and ensuring operational consistency.

Key Contributions:

- Led 3–4 simultaneous client engagements with blended teams of developers, QAs, and support engineers.
- Architected and implemented Sitecore XP/XM solutions with modern frontend technologies and headless composable architectures.
- Delivered secure, scalable infrastructure on Azure with automated CI/CD pipelines, achieving zero-downtime deployments.
- Integrated enterprise authentication, search platforms, marketing automation, and observability solutions.
- Designed and delivered Kajoo.ai AI-assisted, multitenant frontend platform using Kubernetes microservices architecture.

- Drove infrastructure modernization for Kajoo: migrated from hybrid cloud/VMs to full Kubernetes with centralized API Gateway and containerized services.
- Built self-service feature environments using IaC and GitOps, reducing environment provisioning time from days to hours.

Lead Developer | Sitecore – Malaysia | *Jul 2018 – April 2022*

As a Lead Developer on the core CMS engineering team at Sitecore, I led a team of 5 developers and 2 QA engineers delivering critical components of the Sitecore Digital Experience Platform (DXP). My role **combined solution architecture**, **hands-on development**, **team leadership**, and agile product delivery across globally distributed squads working under the SAFe agile framework.

Strategic Platform Development: I played a pivotal role in Sitecore's evolution toward **SaaS, architecting and developing two cornerstone components that became foundational to the platform's capabilities**:

- The [Sitecore Experience Edge Connector](#) - enabling scalable content delivery for headless and JAMstack architectures
- The [Sitecore Authoring and Management GraphQL API](#) - facilitating flexible and secure authoring interfaces for external platforms

Technical Implementation: As part of the platform engineering team, I applied .**NET, JavaScript, and advanced DevOps tools**, including NAnt, PowerShell, Cake, and TeamCity to deliver reliable, **CI/CD-enabled** releases. I integrated Solr for in-product search functionality and implemented cloud telemetry services for usage tracking and diagnostics.

Team Leadership & Quality: I enforced **best practices across** the SDLC through **code reviews**, **clean architecture principles**, and **mentorship** while championing **SOLID, DRY, KISS**, and **TDD** methodologies to ensure maintainability, performance, and long-term product scalability.

Key Contributions:

- Led a cross-functional team of 7 members delivering core CMS product features used by thousands of enterprise clients.
- Architected Experience Edge Connector and GraphQL APIs, accelerating Sitecore's SaaS transformation.
- Designed and maintained backend services using .NET.
- Applied DevOps tooling to enable CI/CD pipelines across product modules.
- Delivered robust in-product search using Solr and integrated telemetry systems for usage and performance monitoring.
- Participated in SAFe Agile ceremonies across Sitecore's global product organization.
- Mentored junior developers and established engineering best practices that improved code quality metrics by 30%.

- Championed the use of clean code, test-driven development (TDD), and scalable architectural patterns throughout the product lifecycle.

Developer / Senior Developer | Sitecore – Malaysia | *Aug 2015 – Jun 2018*

As a core member of the Sitecore DXP engineering team, **I contributed to the development, maintenance**, and stabilization of critical platform components used by global enterprise clients. I worked hands-on with .**NET**, Sitecore's internal frameworks, and **JavaScript** tooling to deliver robust, maintainable code and production-grade hotfixes. My work focused on improving product stability, platform extensibility, and build quality — laying the foundation for Sitecore's **SaaS** transformation in later years.

DevOps & Quality Initiatives: I played a key role in adopting **CI/CD and DevOps practices**, helping **design and automate deployment workflows using** TeamCity, NAnt, PowerShell, and Cake. I collaborated with QA engineers to **improve test automation** using K6 for **performance testing**, Mocha for **unit testing**, and Selenium for **end-to-end coverage**, significantly reducing regression defects.

Critical Issue Resolution: I contributed to customer-critical incident resolution, delivering over 50 production hotfixes across multiple Sitecore versions through deep **debugging**, **telemetry analysis**, and support coordination

Key Contributions:

- Developed and maintained Sitecore DXP core modules using C#/.NET, internal JavaScript frameworks, and platform APIs.
- Delivered 50+ production hotfixes addressing critical issues for global enterprise customers.
- Established CI/CD pipelines and DevOps tooling, improving delivery speed.
- Implemented comprehensive test automation coverage, reducing manual testing effort by 50%.

Technical Consultant | Path Solutions Co. – Sudan | *Jul 2013 – Jul 2015*

As a Technical Consultant for a global Islamic banking software vendor, I provided deployment, environment configuration, and technical support services for enterprise banking solutions across Africa. My role involved working directly with client IT teams to install, configure, and troubleshoot core banking systems, provide post-go-live support, and act as a liaison between customer operations and product engineering.

Professional Support Services: I specialized in system integration validation, UAT support, and production issue resolution—primarily using technologies such as Oracle, Sybase, and Windows servers. I supported mission-critical banking functions, such as cheque clearing and transaction processing, and ensured minimal disruption during go-lives.

Key Contributions:

- Served as on-site technical SME during live rollouts in Sudan and Nigeria, supporting tier-1 banking operations.
- Delivered technical support and patch deployment for production environments with 99.9% uptime.
- Managed core banking system installations, including database initialization and application configuration.
- Produced comprehensive technical documentation and operational runbooks.

Senior Developer | Kushite Integrated Co. – Sudan | *Mar 2011 – Jul 2013*

As a Senior Developer at Kushite Integrated Co., I played a pivotal role in modernizing and centralizing Sudan's decentralized Traffic Police System using **ASP.NET**, **SQL Server**, and **C#**, transforming multiple state-run systems into a centralized, **multitenant** platform.

Biometric Framework: I designed and implemented a biometric integration framework using **C#, C++, COM interfaces, and Serial Port** communication to support hardware abstraction across fingerprint scanners, cameras, passport readers, and signature pads. Applied **dependency injection and Abstract Factory patterns** to ensure modularity and reduce vendor lock-in. The framework significantly reduced hardware vendor lock-in and maintenance costs.

Additionally, I spearheaded the development of a foreign visa management system used in airports and land border terminals, integrating biometric verification with national AFIS systems.

I followed principles such as **SOLID, DRY, KISS**, and design patterns such as **dependency injection** and **Abstract Factory** to ensure modularity, maintainability, and extensibility throughout the implementation.

Key Contributions:

- Transformed a decentralized Traffic System into a centralized, multitenant solution, unifying multiple provincial databases into one and simplifying inter-state vehicle and license operations.
- Enhanced system governance and reduced opportunities for corruption by enforcing strict validation rules around fees, compliance, and officer permissions.
- Developed SOAP-based integrations with border control and customs systems, enabling real-time validation of vehicle import data.
- Integrated with Speed Radar and Red Light Violation systems via a synchronization agent to automatically record and enforce traffic fines.
- Improved the system UI using JavaScript, jQuery, and CSS, enhancing usability for officers and administrators.
- Designed and implemented a biometric framework supporting various device families (Dermalog fingerprint readers, Canon cameras, passport scanners), following a modular architecture using dependency injection and abstract factories, allowing plug-and-play device support.

- Developed a Visa Registration System deployed at border ports and airports using C#, WPF, ASP.NET, Oracle, and biometric devices, integrating with AFIS for fingerprint verification and digital identity validation.

Developer | Financial and Banking Systems (FBS) – Sudan | *Oct 2009 – Mar 2011*

As a full-stack developer at FBS, I contributed to the **development** and enhancement of a **JavaServer Faces (JSF)**-based core banking system that the company acquired. The platform was built using **Service-Oriented architecture**, JSF/JSP for UI development, and **Hibernate** for **ORM**. My responsibilities included building new features, performing system integrations, and supporting stabilization across backend and frontend layers.

In parallel, I designed and implemented a standalone microfinance solution using **C#, ASP.NET**, and **Oracle**, tailored to meet localized financial service requirements.

Additionally, I developed **SOAP-based services** to integrate university databases with the core banking platform, enabling real-time retrieval of tuition fee information and automated reconciliation of student payments.

Key Contributions:

- Contributed to the development of a SOA-based core banking system using JSF, Hibernate, and Oracle.
- Developed a microfinance solution in C#, ASP.NET, and Oracle.
- Built SOAP services to integrate university systems for tuition data retrieval and payment reporting.
- Conducted performance tuning, profiling, and supported QA and integration testing.

EDUCATION

B.Sc. in Computer Science (With Honors) – Sudan | *University of Khartoum 2003 – 2008*

CERTIFICATIONS & TRAINING

- Sitecore XM Cloud Developer Certificate (2024)
- Sitecore 10 Developer Certificate (2022)
- SAFe 4.0 Practitioner (2017)
- Sitecore Professional Developer Certificate (2015)
- Business Objects Crystal Reports (2012)
- Smart Government Seminar – China (2012)

WHY HIRE ME?

- 16+ years of hands-on experience in software development, software architecture, DevOps, and cloud expertise.
- Proven success in managing client relationships and delivering scalable solutions.
- Deep experience across Banking, Government, and Digital Marketing sectors.
- Strong leadership, mentoring & Agile delivery skills.
- Expertise in Sitecore, Cloud-Native Development & DevOps Automation.