

AHMED NEMREEN

Solution Architect | Enterprise Platforms | Digital Transformation

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EXECUTIVE PROFILE

Solution Architect and Technical Lead with 16+ years across enterprise digital platforms and 10+ years on Saudi government programs. At MIM, contributes solution and application architecture for Marsad (NIMIC) and Tarmeez (PSNR), translating business and non-functional requirements into application structures, integrations and technical standards.

Progressed from front-end and UX engineering into architecture and technical leadership. Demonstrated architecture ownership through Hisn, an independently built, demo-ready Arabic-native DLP and AI compliance SaaS platform with documented ADRs, API contracts, tenant isolation and deployment design.

CORE ARCHITECTURE & DELIVERY COMPETENCIES

- Solution & Application Architecture
- Architecture Governance & Standards
- API & Integration Architecture
- Cloud Architecture (AWS)
- Technical Risk & Stakeholder Management
- Design Systems & Platform Engineering
- Agile Delivery & Technical Governance

PROFESSIONAL DEVELOPMENT

- TOGAF® 10 Enterprise Architecture Foundation
- TOGAF® 10 Enterprise Architecture Practitioner
- ITIL Foundation
- AWS Solutions Architect – Associate

FOCUS PROJECTS AND ARCHITECTURE INITIATIVES

MIM Digital Platform Portfolio

Marsad (NIMIC) - nimic.mim.gov.sa

- Defined Angular/Nx modularization, SSR and performance approaches for Marsad; guided API/BI integration (Power BI/SSRS), reusable interface patterns and the Umbraco-to-Directus CMS modernization strategy.

Tarmeez (PSNR) - psnr.mim.gov.sa

- Contributed to solution design for Tarmeez (PSNR), covering standardized product and service classification, integration APIs, role-based data access and scalable analytics requirements.

GOSI Digital Program Portfolio

GOSI Main Portal - gosi.gov.sa

- Guided application architecture and integration patterns for GOSI Portal and Public e-Services, including reusable interfaces, accessibility, performance and code quality.

Taminaty - taminaty.gosi.gov.sa

- Contributed application design and enterprise service integration for Taminaty Individual and Taminaty Business, using consistent self-service journeys and reusable components.

Labeeb (Ameen at GOSI) - masdr.sa/labeeb

- Key delivery contribution to Labeeb (internally Ameen at GOSI): application and enterprise integration patterns supporting Arabic human/virtual-agent journeys across chat, voice and video.
- Additional delivered GOSI products: Tracker 360, Backoffice, Taqdeer Portal and CRM Portal, plus confidential internal systems. Contributed to the GOSI Super App as part of its wider team.

PERSONAL PROJECTS & OPEN-SOURCE WORK

Independent products built outside client work. Evidence of end-to-end ownership, architecture decisions and publicly released engineering tools.

Hisn — Full Solution Architecture, Sole Developer & Product Owner

Project: <https://hisnlab.com/>

- Designed and built Hisn end to end, an Arabic-native DLP and AI compliance SaaS platform deployed on private servers for demos on request (product site live at hisnlab.com), focused on Saudi enterprise use cases and NCA ECC 2.0, PDPL and SAMA CSF control requirements.
- Documented schema-per-tenant isolation (ADR-001), field-level RBAC (ADR-002) and a four-stage processing design: Language → PII → Intent → Risk.
- Solution stack: Angular/Nx, NestJS, FastAPI, PostgreSQL/pgvector and Keycloak; designed AWS EKS (me-central-1) deployment and AraBERT-DLP NLP integration.
- Created a Technical Architecture Document, OpenAPI contract, CI/CD design, privacy impact assessment and seven-portal role-isolated application design.

Loopwell — Arabic-First Feedback & Follow-Up Prototype

- Designed and delivered an interactive bilingual prototype covering feedback insights, case ownership, assignments, follow-up and resolution workflows.

DGA Angular — Platforms Code Design System

Live demo: <https://nemreen.info/dga/>

- Designed and published an RTL-first Angular design system and UI component library for Saudi digital government portals, with design tokens, reusable components and portal-shell architecture. Released npm packages @a.nemreen/dga-ui and @a.nemreen/dga-tokens.

loggo — Frontend Logging Package

Live demo: <https://nemreen.info/loggo>

- Authored and published @a.nemreen/loggo (MIT), a zero-dependency TypeScript logging utility providing styled console diagnostics in development and production no-op behavior, replacing console.log/warn/error/table/group/time.

a11y — Accessibility Toolkit

Live demo: <https://nemreen.info/a11y>

- Designed and published @a.nemreen/a11y (MIT), a framework-agnostic accessibility toolkit featuring accessibility profiles, visual filters and a reading mask, with Arabic/English RTL support across Angular, React, Vue and plain HTML.

WORK EXPERIENCE

Technical Lead and Solution Architecture Consultant

Apr 2025 – Present

DIYAR - MIM Project (Riyadh, Saudi Arabia)

At DIYAR on the MIM program, provides application and solution architecture guidance for Marsad and Tarmeez (PSNR), bridging business requirements, engineering teams and delivery constraints. Areas of work include architecture decisions, API integration, platform performance, CMS modernization and architecture review.

- Defined modular Angular/Nx application patterns and SSR/performance considerations for Marsad, linking frontend structure to the platform's BI and service integrations.

- Shaped the Umbraco-to-Directus headless CMS approach and reusable design-system patterns to support maintainable portal evolution.
- Translated non-functional requirements into decisions on security, performance, maintainability and interfaces with back-end services.
- Reviewed solution and application designs with engineering teams, documenting trade-offs and aligning implementation with architecture principles.
- Contributed architecture input to Tarmeez (PSNR) integration, classification and role-based data-service requirements.
- Worked with product and UX stakeholders to connect user journeys, accessibility and application design choices.
- Supported quality governance through code review, testing expectations and attention to technical debt.
- Partnered with DevOps on CI/CD, release considerations and deployment architecture for enterprise platforms.
- Lead solution and application architecture across enterprise digital platforms, translating business capabilities and non-functional requirements into scalable technical designs covering application structure, performance, security, and maintainability.
- Define architecture principles, engineering standards, and reusable platform patterns, translating business requirements into technical solutions in close collaboration with product owners, designers, and back-end teams.
- Lead architecture and technical design reviews with development teams, conducting code reviews and guiding architectural decisions across the platform.
- Own technical decision-making across the full delivery lifecycle, from discovery and solution design through implementation, release, and post-production optimization.
- Drive Agile delivery practices including sprint planning, backlog refinement, and estimation, while identifying architecture and delivery risks and communicating trade-offs to technical and business stakeholders.
- Conduct UX research activities, including usability reviews and journey mapping, to inform architecture and interface decisions alongside platform performance and user behavior data.
- Define and monitor platform performance KPIs, and evaluate emerging technologies and architecture patterns to improve efficiency, user experience, and long-term sustainability.
- Contribute to governance frameworks aligned with established project-delivery methodologies and enterprise architecture standards, including structured code quality practices, automated testing standards, and proactive technical debt management.
- Establish and maintain scalable design systems and reusable component libraries as part of the broader platform architecture, ensuring consistency and accelerating delivery.

Technical Lead | Application Architecture | R&D Engineer

Nov 2023 – Apr 2025

EJADA - GOSI Project (Riyadh, Saudi Arabia)

Led architecture and R&D work on GOSI digital services, including GOSI Portal, Taminaty, Labeeb (Ameen) and shared application platforms. Guided reusable components, integration decisions and engineering governance.

- Led architecture and code reviews, mentoring developers on modular application design and maintainable implementation.
- Established reusable UI modules and component-library patterns for consistency across multiple customer journeys.
- Set coding and review standards to support engineering quality across GOSI application teams.
- Designed application frameworks to integrate enterprise services with customer-facing platforms.
- Evaluated Angular and React patterns against platform needs, maintainability and performance trade-offs.
- Coordinated integration design with .NET/back-end and DevOps engineers.
- Guided application performance improvements and responsive experiences.
- Lead and mentor a team of developers, providing comprehensive architecture and code reviews and guidance on application structure and framework usage.
- Oversee the architecture of UI components and platform modules, ensuring reusable and modular design that maintains consistency across applications.

- Enforce architecture and code standards and best practices to uphold high-quality, maintainable codebases.
- Architect robust application frameworks and component libraries for diverse products and platforms.
- Evaluate and select appropriate frameworks and architecture patterns, such as React and Angular, tailored to specific project requirements.
- Collaborate with back-end developers and DevOps engineers to design seamless integration architecture, tooling, and infrastructure.
- Oversee implementation of pixel-perfect, responsive interfaces across platforms and devices, based on UX design mockups and prototypes.
- Apply modern HTML5, CSS3, and JavaScript ES6+ capabilities within the broader application architecture to deliver performant, high-quality implementations.
- Recommend and implement advanced performance optimizations at the architecture level.
- Track emerging front-end and platform technologies, advocating for adoption where it strengthens the architecture.
- Contribute to research and development initiatives to explore and integrate new architecture approaches and technologies.

Lead Front-End Developer | UI/UX Developer

Jun 2021 – Oct 2023

EJADA - GOSI Project (Riyadh, Saudi Arabia)

- Led UI/UX design and development for GOSI digital platforms, conducting user research and producing wireframes, prototypes, and visual designs.
- Technically led eight developers delivering GOSI digital products, allocating work, resolving technical issues, mentoring engineers, reviewing code and supporting delivery standards.
- Partnered with product managers, designers, and back-end developers to translate business requirements into user-centric solutions.
- Managed project timelines and task delegation, and introduced process and tooling improvements to strengthen performance and scalability.
- Led and mentored a team of front-end developers, conducting code reviews and enforcing coding standards.
- Managed project timelines and task delegation, ensuring on-time delivery of features and updates.
- Mentored junior designers and developers, building a collaborative team culture.

Senior Front-End Developer | UX Developer

Jun 2015 – May 2021

Naseej - GOSI Project (Riyadh, Saudi Arabia)

- Designed and built responsive, user-centered front-end interfaces for GOSI digital platforms, turning UX designs and prototypes into production-ready implementations.
- Led front-end and UX workstreams in collaboration with product, design, and back-end teams, optimizing performance with modern web technologies.
- Integrated front-end implementations with .NET back-end services and modernized legacy web interfaces into responsive, up-to-date experiences.
- Built the front-end and UX foundation that later supported the move into application architecture and technical leadership.
- Develop prototype designs into fully functional websites.
- Utilize expertise in front-end development technologies such as HTML, XHTML, CSS, Java and jQuery to enhance interactivity.
- Create banner ads, email advertisements / newsletters.
- Revamping an old website to new and modern sites.
- Integrate HTML code with .NET.

Senior Front-End Developer*Nov 2013 – May 2015****iHorizons (Amman, Jordan)***

Developed and optimized user interfaces, led front-end projects, and collaborated with designers and back-end developers to deliver responsive, performant applications.

- Developing PHP applications, as well as connecting websites with MySQL database and writing queries to retrieve data from it.
- Using web content management systems to manage websites (Joomla / Rama-Vision CMS / WordPress / ...).
- Lead the planning and implementation of projects.
- Track project deliverables using appropriate tools.
- Present reports defining project progress, problems and solutions.
- Quality assurance.

Lead Developer*Apr 2012 – Oct 2013****Chromovision (Amman, Jordan)***

Led development projects and managed a team of developers, designing and implementing features while ensuring code quality and application performance.

- Developing PHP applications, as well as connecting websites with MySQL database and writing queries to retrieve data from it.
- Using web content management systems to manage websites (Joomla / Rama-Vision CMS / WordPress / ...).
- Lead the planning and implementation of projects.
- Track project deliverables using appropriate tools.
- Present reports defining project progress, problems and solutions.
- Quality assurance.

Web Developer*Mar 2011 – Apr 2012****Chromovision (Amman, Jordan)***

Developed and maintained websites, collaborated on feature implementations, debugged issues, and optimized performance using HTML, CSS, and JavaScript.

- Developing PHP applications, as well as connecting websites with MySQL database and writing queries to retrieve data from it.
- Using web content management systems to manage websites (Joomla / Rama-Vision CMS / WordPress / ...).
- Quality assurance.

Consulting Assistant and ARIS Tools Technical*Jul 2010 – Feb 2011****Reach Group (Amman, Jordan)***

Assisted with business process consulting and reengineering using ARIS Tools, developing process architectures and workflow diagrams and preparing documentation — early exposure to enterprise process modeling that continues to inform an architecture-oriented, business-aligned approach to technology delivery.

- Participating in providing consulting services regarding business process management and reengineering.
- Participating in improving processes to reduce waste and continuously improve performance.
- Perform continuous reviews to align processes with business changes.
- Develop business process architectures, process relationship maps, functional relationship maps, cross-functional maps and workflow diagrams using the ARIS BPM tool.
- Research industry trends, best practices and improvement opportunities from all sectors.
- Interviewing client's employees, management team and other stakeholders.
- Preparing all reports, forms and documents needed for business process reengineering.

Technical Support

Dec 2009 – Jul 2010

Network Exchange Technology (Amman, Jordan)

Handled technical support for ISP services, including troubleshooting, device setup, and network maintenance.

- VOIP System (devices configuration and setup, and billing system management).
- Troubleshooting problems (Dialup – ADSL – Mdaemon Mail Server).
- Maintenance (hardware and software).
- NOC.
- Routing configuration.
- Good knowledge and background in Bluecoat and Fortinet.

EDUCATION

BSc in Computer Information Systems

Sep 2005 – Feb 2009

Al-Hussain Bin Talal University, Ma'an – Jordan

SKILLS

ARCHITECTURE, ENGINEERING & TECHNICAL SKILLS

Architecture & Governance

- Solution & Application Architecture: Enterprise Platforms, National Data Platforms, Technical Roadmaps
- Integration: API & Integration Architecture, RESTful Services, OpenAPI, RBAC, Omnichannel Platform Integration, Headless CMS, BI / Reporting (Power BI, SSRS)
- Governance: Architecture Governance, Architecture Reviews, Architecture Decision Records (Hisn)
- Quality Attributes: Non-Functional Requirements, Scalability & Performance, Security-by-Design
- Risk & Delivery: Technical Risk Management, Stakeholder Management, Agile Delivery, Technology Evaluation

Cloud & Platform

- Cloud: AWS platform design, AWS me-central-1 target deployment architecture (Hisn)
- Platform Engineering: Kubernetes / EKS, Containers, CI/CD, Keycloak / IAM (Hisn)

Application Architecture

- Frameworks: Angular, Nx, React, TypeScript, NestJS (Hisn), FastAPI (Hisn)
- Front-End Development: Angular, React, TypeScript, HTML5, CSS3, JavaScript (ES6+), SSR
- Content Platforms: Headless CMS, REST APIs

Data, AI & Conversational Platforms

- Data: PostgreSQL, pgvector (Hisn)
- AI / NLP: AI/LLM Integration, Arabic NLP - AraBERT-DLP (Hisn), Conversational AI Platforms (Labeeb)

Leadership & Delivery

- Team Leadership: Leading and Mentoring Teams, Team Management
- Project Leadership: Task Delegation, Timeline Management, Comprehensive Code Reviews
- Continuous Improvement: Research and Development, Adoption of New Technologies
- Mentorship: Training Junior Developers, Fostering Collaborative Work Environments
- Delivery Tools: JIRA, Trello, Asana

UX & Digital Platforms

- UI/UX Design: Wireframing, Prototyping, Visual Design, User Research

- Design Systems & Accessibility: Reusable Component Libraries, Accessibility, RTL/Bilingual Platforms
- Responsive Design: Cross-platform Compatibility, Mobile-first Design
- Performance Optimization: Code Optimization, Performance Tuning

Soft Skills

- Collaboration: Cross-functional Team Collaboration, Effective Communication
- Problem-Solving: Troubleshooting, Debugging
- Consulting: Business Process Management, Reengineering

Earlier Technologies

Version Control: Git, SVN

Task Runners: Webpack, Gulp, Grunt

Backend Integration: API Integration, .NET Integration

Content Management Systems: Joomla, WordPress, Rama-Vision CMS

Database: MySQL, SQL Queries

Technical Support: VOIP System Setup, Network Troubleshooting, Device Configuration, Bluecoat and Fortinet

Business Process: ARIS Tools, Process Mapping, Workflow Optimization

Design Tools

Figma • Adobe XD • Adobe Photoshop • Adobe Illustrator • Adobe InDesign

LANGUAGES

Arabic — Native **English** — Proficient