

AHMED NEMREEN

Solution Architect | Enterprise Platforms | Digital Transformation

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EXECUTIVE PROFILE

Technology architecture and delivery leader with 16+ years of experience designing, modernizing and delivering enterprise digital platforms, including extensive experience across Saudi government transformation programs. Combines hands-on engineering depth with solution architecture, technical governance, cross-functional delivery and stakeholder leadership. Experienced in translating business requirements into scalable application and platform architectures, integration approaches, security and performance requirements, delivery roadmaps and technical standards.

Brings an uncommon combination of architecture, engineering leadership, delivery management and UX strategy, enabling solutions that are technically sustainable while remaining practical and user-centered.

CORE ARCHITECTURE & DELIVERY COMPETENCIES

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

PROFESSIONAL DEVELOPMENT

- **TOGAF® 10 Enterprise Architecture Foundation:** coursework completed
- **TOGAF® 10 Enterprise Architecture Practitioner:** coursework completed
- **ITIL Foundation:** coursework completed
- **AWS Certified Solutions Architect – Associate:** in progress

FOCUS PROJECTS AND ARCHITECTURE INITIATIVES

MIM Digital Platform Portfolio

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

- Solution architecture for the MIM analytics and digital-services platform, including Angular/Nx modularization, SSR and performance, API integration, Power BI/SSRS, the Umbraco-to-Directus headless CMS strategy, reusable design-system patterns, and CI/CD governance.

Tarmeez / NRPS - psnr.mim.gov.sa

- Architecture focus for a national product-and-service data platform spanning lifecycle monitoring, standardized classifications, cross-sector data integration, role-based open APIs, and real-time and predictive analytics supporting a national single source of truth.

GOSI Digital Program Portfolio

GOSI Main Portal - gosi.gov.sa

- Application architecture and platform standards for GOSI public digital services, covering reusable components, API integration, accessibility, performance, and engineering governance.

Taminaty - taminaty.gosi.gov.sa

- Architecture and engineering guidance for customer self-service journeys, responsive interfaces, reusable components, enterprise integrations, accessibility, and performance.

Labeeb - masdr.sa/labeeb

- Architecture focus for an AI-powered customer-engagement platform unifying human and virtual agents across video, voice, and chat, with Arabic support, enterprise integration, local hosting, and real-time analytics.

PERSONAL PROJECTS & OPEN-SOURCE WORK

Independent projects built and owned outside client engagements, as sole developer/architect or freelancer — used here as direct architecture and engineering evidence.

Hisn (حِصْن) — Full Solution Architecture, Sole Developer & Product Owner

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

- Arabic-native DLP and AI compliance SaaS for Saudi enterprise and government customers (NCA ECC 2.0, PDPL, SAMA CSF), designed and built end-to-end as sole architect and developer.
- Owns all architecture decisions and documentation, including schema-per-tenant multi-tenancy isolation (ADR-001), field-level RBAC (ADR-002), and a 4-layer AI processing pipeline (Language → PII → Intent → Risk).
- Architecture stack: Angular/Nx, NestJS, FastAPI, PostgreSQL with pgvector, Kubernetes (EKS) on AWS me-central-1, Keycloak identity, and a custom Arabic NLP model (AraBERT-DLP).
- Produced full architecture artifacts: Technical Architecture Document, OpenAPI contract, CI/CD pipeline definition, privacy impact assessment, and a 7-portal role-isolated application design.

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, including design tokens and reusable component/portal-shell architecture. Published as npm packages (@a.nemreen/dga-ui, @a.nemreen/dga-tokens).

loggo — Frontend Logging Package

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

- Authored and published a zero-dependency TypeScript logging package (@a.nemreen/loggo, MIT) that provides styled console output in development and silently no-ops in production — a drop-in replacement for console.log/warn/error/table/group/time.

a11y — Accessibility Toolkit

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

- Designed and published a framework-agnostic accessibility toolkit (@a.nemreen/a11y, MIT) covering quick profiles, visual filters, and a reading mask, with bilingual Arabic/English RTL support — works across Angular, React, Vue, and plain HTML with no framework peer dependencies.

WORK EXPERIENCE

Technical Lead and Solution Architecture Consultant

Apr 2025 – Present

DIYAR - MIM Project (Riyadh, Saudi Arabia)

Technical Lead and Solution Architecture Consultant responsible for application and solution architecture, technical leadership, and UX guidance across enterprise digital platforms. Skilled in end-to-end project delivery, agile methodologies, and stakeholder management, translating business needs into scalable, well-governed technical solutions. Experienced in mentoring teams, ensuring architecture and code quality, and driving projects to successful completion using structured project-delivery and architecture governance practices. The MIM portfolio includes Marsad (NIMIC) and Tarmeez / NRPS as major digital 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.
- Collaborate with DevOps teams on CI/CD pipeline architecture, release governance, and deployment reliability.

Technical Lead | Application Architecture | R&D Engineer

Nov 2023 – Apr 2025

EJADA - GOSI Project (Riyadh, Saudi Arabia)

Technical Lead with a strong focus on application architecture for responsive, high-performance web and mobile platforms. Proficient in modern architecture patterns, frameworks, and best practices. Skilled in leading cross-functional teams and driving technical governance. Adept at collaborating with designers and back-end developers, mentoring engineers, conducting architecture reviews, and driving continuous improvement in development processes. The GOSI portfolio included gosi.gov.sa, Taminaty, and Labeeb as major digital platforms.

- 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.
- Establish and enforce coding standards, naming conventions, and organizational methodologies as part of architecture governance across teams.
- Track UX design trends, standards, and best practices, guiding the team in adoption of methods that align with the overall platform architecture.

Lead Front-End Developer | UI,UX Developer

Jun 2021 – Oct 2023

EJADA - GOSI Project (Riyadh, Saudi Arabia)

Led front-end development and UI/UX design projects, managed a team of developers, created responsive and user-centric interfaces, collaborated with cross-functional teams, and optimized application performance using modern web technologies.

- Led UI/UX design and development for GOSI digital platforms, conducting user research and producing wireframes, prototypes, and visual designs.
- Led and mentored a team of front-end developers, conducting code reviews and enforcing coding standards.
- Partnered with product managers, designers, and back-end developers to translate business requirements into user-centric solutions.
- Managed project timelines and task delegation, ensuring on-time delivery of features and updates.
- Introduced process and tooling improvements to strengthen performance and scalability.
- 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 implemented user interfaces, led front-end and UX projects, collaborated with cross-functional teams, ensured responsive and intuitive user experiences, and optimized performance using modern web technologies — building the platform and engineering foundation that later supported a move into architecture and technical leadership.

- Primary web designer / front-end web developer with advertising firm.
- 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 & Governance

- **Solution & Application Architecture:** Enterprise Platforms, National Data Platforms, Technical Roadmaps
- **Integration:** API & Integration Architecture, RESTful Services, RBAC, Omnichannel Platform Integration
- **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 (Solutions Architect – Associate in progress), AWS me-central-1 (Hisn)
- **Platform Engineering:** Kubernetes / EKS, Containers, CI/CD, Keycloak / IAM (Hisn)

Application Architecture

- **Frameworks:** Angular, Nx, NestJS, FastAPI (Hisn)
- **Front-End Development:** 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