

AHMED NEMREEN

Technical Lead | Front-End & Application Architecture | Digital Platforms

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EXECUTIVE PROFILE

Technical lead with 16+ years of experience designing and delivering enterprise web platforms, including extensive work across Saudi government digital transformation programs. Combines deep front-end engineering experience with application architecture, technical governance, performance optimization, design systems, accessibility, UX awareness, and cross-functional delivery.

Experienced in leading engineers through framework decisions, reusable architecture, architecture and code reviews, engineering standards, mentoring, API integration, CI/CD collaboration, and production optimization across responsive, high-performance, bilingual digital platforms.

CORE TECHNICAL LEADERSHIP & PLATFORM COMPETENCIES

- Technical & Engineering Leadership
- Front-End & Application Architecture
- Angular, Nx, React & TypeScript
- Design Systems & Component Libraries
- Architecture Reviews & Code Quality
- Performance, SSR & Accessibility
- Developer Mentoring & Cross-Functional Delivery

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 TECHNICAL LEADERSHIP INITIATIVES

MIM Digital Platform Portfolio

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

- Technical leadership for the MIM analytics and digital-services platform across Angular/Nx architecture, SSR, performance, BI and API integration, headless CMS modernization, reusable components, design-system standards, and CI/CD collaboration.

Tarmeez / NRPS - psnr.mim.gov.sa

- Technical-lead focus for a national data platform with standardized classification workflows, secure role-based integrations, analytics dashboards, reusable application patterns, and scalable phased delivery.

GOSI Digital Program Portfolio

GOSI Main Portal - gosi.gov.sa

- Front-end and application-architecture leadership for GOSI public services, including reusable modules, design standards, API integration, accessibility, performance, and engineering quality.

Taminaty - taminaty.gosi.gov.sa

- Technical leadership for responsive customer journeys, shared UI components, integration quality, cross-device consistency, accessibility, and performance optimization.

Labeeb - masdr.sa/labeeb

- Technical-lead focus for responsive video, voice, and chat experiences, enterprise integrations, dashboards, reusable UI patterns, and Arabic digital journeys.

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 architecture, technical implementation leadership, engineering quality, and UX guidance across enterprise digital platforms. Leads developers through architecture and code reviews, reusable patterns, performance improvements, design systems, integration decisions, delivery risks, and collaboration with product, back-end, and DevOps teams. The MIM portfolio includes Marsad (NIMIC) and Tarmeez / NRPS as major digital platforms.

- Lead application architecture and technical implementation across enterprise digital platforms using scalable, modular, reusable, and maintainable patterns.
- Define engineering standards, framework guidance, reusable platform patterns, and technical solutions with product owners, designers, back-end teams, and developers.
- Lead architecture, technical design, and code reviews, guiding engineers on application structure, framework usage, maintainability, performance, and quality.
- Own technical decisions across discovery, implementation, release, and post-production optimization while keeping teams aligned on architecture and engineering priorities.
- Support sprint planning, backlog refinement, and estimation while identifying technical risks, dependencies, and implementation trade-offs.
- Conduct usability reviews and journey mapping to align application architecture and interface implementation with user needs and platform behavior.
- Define and monitor performance KPIs and evaluate front-end, application, and platform technologies for practical adoption.
- Establish code quality practices, automated testing expectations, architecture governance, naming conventions, and proactive technical debt management.
- Establish and maintain scalable design systems, reusable component libraries, and shared UI patterns that improve consistency and delivery speed.
- Collaborate with back-end and DevOps teams on APIs, CI/CD, tooling, deployment reliability, and production performance.

Technical Lead | Application Architecture | R&D Engineer

Nov 2023 – Apr 2025

EJADA - GOSI Project (Riyadh, Saudi Arabia)

Technical Lead focused on front-end and application architecture for responsive, high-performance web and mobile platforms. Led developers through architecture and code reviews, framework selection, reusable components, performance optimization, UX implementation, standards, mentoring, and collaboration with back-end and DevOps teams. The GOSI portfolio included gosi.gov.sa, Taminaty, and Labeeb as major digital platforms.

- Lead and mentor developers, providing detailed architecture and code reviews and guidance on application structure and framework usage.
- Architect modular UI components and platform modules that maintain reusable, consistent patterns across applications.
- Enforce architecture, code, naming, testing, and maintainability standards across development teams.
- Architect application frameworks, design systems, and component libraries for diverse products and platforms.
- Evaluate and select Angular, React, and related architecture patterns based on project requirements.
- Collaborate with back-end developers and DevOps engineers on APIs, integration architecture, tooling, infrastructure, and CI/CD.

- Oversee pixel-accurate, responsive implementation across platforms and devices based on UX designs and prototypes.
- Apply HTML5, CSS3, JavaScript ES6+, and TypeScript capabilities to deliver performant, maintainable implementations.
- Recommend and implement performance improvements across architecture, rendering, assets, and application behavior.
- Track front-end and platform technologies and guide adoption where they strengthen the architecture.
- Contribute to R&D initiatives exploring new front-end, application, and platform approaches.
- Establish coding standards, naming conventions, organizational methods, and reusable engineering practices across teams.
- Track UX, accessibility, and interface standards and guide their adoption within the 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

Technical Leadership & Architecture

- **Application Architecture:** Modular Architecture, Reusable Patterns, Framework Selection, Technical Roadmaps
- **Front-End Architecture:** Angular, Nx, React, TypeScript, SSR, Responsive Platforms
- **Engineering Governance:** Architecture Reviews, Code Reviews, Coding Standards, Naming Conventions
- **Quality:** Performance, Maintainability, Automated Testing Standards, Accessibility, Technical Debt
- **Leadership:** Team Mentoring, Technical Risk Management, Estimation, Cross-Functional Delivery

Cloud & Platform

- **Cloud:** AWS (Solutions Architect – Associate in progress), AWS me-central-1 (Hisn)
- **Platform Engineering:** Kubernetes / EKS, Containers, CI/CD, Keycloak / IAM (Hisn)

Front-End & Application Architecture

- **Frameworks:** Angular, Nx, React, NestJS, FastAPI (Hisn)
- **Front-End Development:** TypeScript, HTML5, CSS3, JavaScript (ES6+), SSR
- **Platform Integration:** REST APIs, Headless CMS, .NET, BI Dashboards, Omnichannel Experiences

Data & AI

- **Data:** PostgreSQL, pgvector (Hisn)
- **AI / NLP:** AI/LLM Integration, Arabic NLP — AraBERT-DLP (Hisn)

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