Fahad A. Alshaya

Senior Software Architect | Applied AI & .NET Platforms

Riyadh, Saudi Arabia | Open to Riyadh, Dubai and remote roles

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Profile

Hands-on software architect and technical founder focused on standards-led AI-assisted engineering. Built 30+ products in 2025–2026 and operate published platforms including MailDock and EyeRevo. Building software since 1998; led teams of 15+ members at Botas and NeoSpace.

Experience

Senior Software Architect

Independent | *Riyadh, Saudi Arabia* | *Mar 2025 - Present*

- Authored coding, architecture, documentation and delivery standards for AI coding agents, human review and quality gates; standardized all current .NET backends on WolverineFX/RabbitMQ/CQRS.
- **MailDock:** Built and operate a private email platform managing 45,000+ conversations through seven independent workers, with durable inbox/outbox processing, Cloudflare ingress, SES/SMTP delivery and recoverable PST imports.
- **EyeRevo:** Built MCP workflows for agent-generated submissions, human review and approved-asset retrieval; operate a shared game-asset library of about 200,000 files (~30 GB).
- Built AgentOps AI-agent workflows and EagleEye IT service-management and monitoring capabilities.
- **Cartostead:** Built a .NET/GDAL geospatial publishing platform implementing WMS, WFS, WMTS and OGC API - Features.
- Modernizing Arcadia with .NET/React to preserve business behavior, reporting, localization and plugins.
- **Manaqil:** Launched a Next.js Saudi-history site for Saudi National Day 2026 with a 64-show catalog, reusable player and extensible packages.
- Operate about 50 applications and hundreds of containers across Debian/FreeBSD and multiple providers, with Prometheus/Grafana/Loki observability.

Senior Development Leader

NeoSpace Group | *Riyadh, Saudi Arabia* | *Dec 2022 - Mar 2025*

- Led customer-project delivery with 15+ team members, translating contracts into assigned tasks, mentoring engineers and resolving blockers.
- Enabled shared authentication across multiple applications by leading architecture and implementation of a .NET identity provider supporting OAuth 2.0, OpenID Connect and FIDO2/WebAuthn.
- Led development of Saudi points-of-interest and navigation applications.
- Designed GIS applications with Esri Enterprise and PostGIS for terrain and spatial visualization. Used AI assistance for code revision and geospatial-tool development.
- Reduced production defects and customer-facing issues through Azure DevOps task-linked pull requests, enforced unit tests on PRs and pre-production staging.
- Replaced manual Windows/Linux deployments with Azure Pipelines and modernized application hosting with Docker and Kubernetes.

Experience Continued

IT Infrastructure Lead

Prisoners Care Committee | *Qassim, Saudi Arabia* | *Jan 2021 - Dec 2022*

- Established a data center with multiple Proxmox servers and centralized NAS storage, hosting 15+ applications, including Nextcloud for email access and office collaboration.
- Built the organization's network, camera surveillance and physical access-control systems.
- Supported donation and marketing operations by building a donation store and URL tracker with Blazor and Microsoft SQL Server.

Founder and Technical Director

Botas IT | *Qassim, Saudi Arabia* | *Jan 2008 - Dec 2020*

- Created Arcadia, a reusable .NET application framework with metadata-driven interfaces and composable modules and plugins.
- Built reusable components for the data lifecycle, validation, reporting, localization and code generation.
- Delivered accounting, inventory, CRM, asset-management and task-scheduling systems for nonprofit and commercial organizations by reusing Arcadia.
- Founded Botas IT and led 15+ specialists to deliver ERP, CRM and HRM systems for the Saudi market.
- Integrated a library management system with the Library of Congress through SRU; built an Arabic transliteration engine to convert Romanized bibliographic records into Arabic script.
- Enabled passwordless authentication for client systems by implementing FIDO2 and WebAuthn.

Early Software Development

Independent | *1998–2007*

- Completed a first paid software project in 1998; later developed digital notary and distribution applications using C# and Windows Forms.

Core Expertise

Architecture: Clean Architecture, domain-driven design (DDD), CQRS and event-driven messaging with WolverineFX/RabbitMQ.

Platform engineering: C#/.NET, React/TypeScript, reusable frameworks, metadata-driven interfaces and code generation.

Applied AI: AI-assisted engineering, coding-agent governance, MCP integration, speech-to-text/text-to-speech and image-to-3D workflows.

Identity and integration: OAuth 2.0, OpenID Connect, FIDO2/WebAuthn and API integration.

Data and GIS: PostgreSQL/PostGIS, GDAL, SQL Server, Esri Enterprise and OGC services (WMS, WFS, WMTS, OGC API – Features).

Delivery: Azure DevOps/Pipelines, Docker/Kubernetes, unit testing, staging and observability.

Education

Diploma in Software Programming | Alkhaleej Institute of Applied Sciences | 2006

Languages

Arabic: Native | English: Professional working proficiency