

# MOUNIR DJEMA

## Senior Azure Integration Consultant and .NET Architect

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## PROFILE

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Senior consultant with 16 years of experience in software development, the last six focused on systems integration on Azure. I design and operate the cloud services that let heterogeneous enterprise systems exchange data reliably: Azure Functions, Logic Apps, API Management, Service Bus and Key Vault, backed by .NET and C#.

Most of my work happens in regulated environments. Six years in financial services at iA Financial Group and Fonds de solidarité FTQ, then at Telecon, where I designed the integration layer that centralizes payroll and finance across subsidiaries acquired over the years. Secure design, controlled deployments and traceability are part of how I build, not a finishing step.

I am the person my teams escalate to when a production integration fails, and the one who writes the documentation and onboarding guides afterwards. In parallel, I design and operate my own SaaS products, Kairos and Blue Bird Immigration, from the first client conversation through to production support.

## TECHNICAL SKILLS

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### Azure and integration

- Azure Functions, Logic Apps, App Service, Service Bus, Storage, Key Vault
- Azure API Management: policies, versioning, token validation, rate limiting
- Serverless and event-driven architecture, queues and subscriptions, decoupling of enterprise systems
- Microsoft Entra ID, managed identities, service principals, secret management, OAuth 2.0, JWT
- Reliability patterns: idempotency, automatic retries, dead letter queues, circuit breakers
- SFTP and file exchange for legacy systems

### Development

- C# and .NET, ASP.NET Core, Entity Framework Core
- REST API and webhook design: contracts, versioning, backward compatibility
- Unit and integration testing (xUnit), code reviews, maintainable and testable code
- Java, Python, FastAPI, JavaScript, TypeScript, React, Angular, Tailwind CSS

### DevOps and infrastructure

- Azure DevOps, Azure Pipelines, YAML pipelines, GitHub Actions, Git
- Build once, promote the same artifact across environments, approvals and quality gates
- Infrastructure as code: Terraform, Bicep
- Docker, Kubernetes, Azure Kubernetes Service

### Monitoring and operations

- Azure Monitor, Application Insights, Log Analytics
- End to end correlation, alerting on queue depth and processing delay
- Incident management, root cause analysis, escalation point for complex issues

### Data

- Advanced SQL, SQL Server, PostgreSQL, Oracle, data modelling and query tuning
- Ingestion and transformation pipelines: Azure Data Factory, Azure Databricks, ETL, Apache Spark, medallion architecture

### Ways of working

- Agile and Scrum, collaboration with technical and business stakeholders
- Requirements analysis, technical specifications, estimation and delivery planning
- Technical documentation, runbooks and onboarding guides, mentoring
- Jira, Confluence, Visual Studio, Visual Studio Code
- AI-assisted development: Claude Code, GitHub Copilot, Anthropic API, agents. My rule: I never ship code I could not defend in a review

## PROFESSIONAL EXPERIENCE

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### **IA FINANCIAL GROUP | Senior Developer and Azure Consultant**

*June 2023 to April 2025, and on an ongoing mandate since 2026 | Quebec*

- Designed and evolved business critical financial applications in a regulated environment.
- Built ingestion, transformation and exposure pipelines with SQL, Azure Data Factory and Azure Databricks, feeding business and digital platforms.
- Delivered application services connected to the Sitecore platform.
- Applied the security, access management and data governance standards required in financial services.
- Drove DevOps practices: branching strategies, code reviews, CI/CD pipelines and controlled deployments.
- Built reusable components and mentored other developers on integration patterns.

**Environment:** Java, .NET, SQL, SQL Server, Azure, Azure Data Factory, Azure Databricks, Azure DevOps, Git, Docker, Kubernetes, AKS, Sitecore.

### **TELECON | Senior Azure Systems Integration Consultant**

*April 2025 to July 2026 | Quebec*

Telecon builds fibre optic networks across Canada and the United States for carriers such as Bell, with tens of thousands of field employees. The company grew through acquisitions, so each subsidiary arrived with its own systems for payroll, timesheets, projects and per diems, and finance had no consolidated view of costs.

- Designed the Azure integration layer that centralizes payroll and financial processing across those heterogeneous systems.
- Matched the integration to each source system rather than forcing a migration: REST APIs for the modern platforms, file exchange for the older ones.
- Orchestrated end to end processing with Logic Apps and Azure Functions, with Service Bus between each stage so that one slow system never blocks the chain.
- Applied reliability patterns throughout: idempotent processing, retries with backoff, dead letter queues with alerting, and a correlation identifier that follows a transaction across every component.
- Enforced validation at the boundary and surfaced rejects to the business rather than correcting them silently, which matters when the output is the payroll of real people.
- Secured the platform with managed identities and Key Vault, with no secrets in code or configuration.
- Built and maintained the Azure DevOps YAML pipelines, with approvals before production and infrastructure provisioned by Terraform and Bicep in the same pipeline as the code.
- Acted as technical escalation point for complex production incidents, and produced the technical documentation and onboarding guides.

**Environment:** Azure, Logic Apps, Azure Functions, API Management, Service Bus, Key Vault, Azure Monitor, Application Insights, Azure DevOps, Git, C#, .NET, REST APIs, SQL Server, Terraform, Bicep.

### **RNM TECHNOLOGIES INC. | Founder and SaaS Solutions Architect**

*October 2020 to present | Quebec*

Design, development and operation of B2B SaaS platforms. Full ownership of the lifecycle: client conversations, analysis, architecture, development, third party integrations, security, deployment, documentation, monitoring and production support. Both products are detailed in the Projects section.

- Multi tenant SaaS architecture: tenant isolation, role based access, secret management.
- Secure integrations with third party providers over REST APIs and webhooks, including OAuth 2.0 authorization flows and token handling.
- Import, validation and reconciliation pipelines for onboarding existing customer data.
- Full stack delivery: .NET services and Azure Functions, React interfaces, tracking dashboards.
- Automated deployments through GitHub Actions, production monitoring and incident resolution.

**Environment:** C#, .NET, Azure Functions, Entity Framework Core, React, PostgreSQL, REST APIs, webhooks, OAuth 2.0, Stripe, Twilio, GitHub Actions.

### **MODIS | Lead Software Engineer**

*October 2022 to June 2023 | Quebec*

- Led the design and evolution of enterprise application solutions in a multi system environment.
- Improved the technical architecture and delivered reusable backend and integration components.
- Ran agile ceremonies, code reviews and technical mentoring.

**Environment:** Java, .NET, SQL Server, Azure DevOps, Git, CI/CD, Agile.

## **FONDS DE SOLIDARITÉ FTQ | Senior Developer**

*January 2020 to October 2022 | Quebec*

- Designed, developed and maintained enterprise applications for one of the largest investment institutions in Quebec.
- Delivered integrations, automation processes and data flows with SQL, Azure Data Factory and Azure Databricks.
- Evolved the ingestion, transformation and exposure flows feeding business and digital platforms.
- Applied DevOps practices under Azure DevOps and Git: source control, branching, continuous delivery.
- Participated in requirements analysis, testing, documentation, deployments and production support in an agile setting.

**Environment:** Java, .NET, SQL, SQL Server, Azure, Azure Data Factory, Azure Databricks, Azure DevOps, Git, ETL, Sitecore.

## **IBM CLIENT INNOVATION CENTER | Java and .NET Developer**

*January 2019 to January 2020*

- Developed and maintained enterprise applications and system integration interfaces.
- Requirements analysis, technical design, testing and application support in agile teams.

**Environment:** Java, .NET, Oracle, SQL, Git, REST APIs.

## **OOREDOO ALGERIA | Head of Web and E-commerce Development**

*October 2012 to July 2018*

- Close to six years leading the public website and online store of a national telecom operator, at high traffic volumes.
- Owned the integrations between digital channels and internal systems: billing, CRM, product catalogue.
- Managed a development team, accountable for quality, performance and availability of customer facing platforms.
- Translated commercial and campaign objectives into technical solutions and delivery plans.

**Environment:** Java, SQL, APIs, web development, e-commerce, billing systems, CRM integration, Agile.

## **COMPLETE SPATIAL SOLUTIONS | Development Project Manager**

*January 2009 to October 2012*

- Applications for the collection, processing and mapping of field data.
- Backend development, database design and coordination with business teams.

**Environment:** Java, SQL, web development, databases, ArcGIS, QGIS.

## **PROJECTS**

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### **KAIROS | Automated Customer Communication SaaS Platform**

*RNM Technologies, a product I designed and operate*

A platform that helps independent auto repair shops and appointment based businesses stay in touch with their customers. Confirmations, reminders, vehicle ready notices and Google review requests go out automatically, SMS works in both directions, and consent and anti-spam rules are respected.

- Multi tenant SaaS architecture built around an event driven engine triggered by customer journey milestones.
- Smart campaigns module that surfaces communication opportunities based on regional context, seasonality and external events.
- Transactional messaging provider integration: delivery status, consent tracking, anti-spam compliance.
- Secure API and data integrations with shop management systems, designed not to disrupt existing processes.
- Kairos is now a partner of the Chambre de commerce et de l'industrie Haute-Yamaska.

**Environment:** SaaS architecture, .NET, Azure Functions, React, PostgreSQL, webhooks, Twilio, Stripe, GitHub Actions.

Live at: [kairosflow.app](https://kairosflow.app)

### **BLUE BIRD IMMIGRATION | Case Management SaaS Platform**

*RNM Technologies, a product I designed and operate*

A case management platform for immigration professionals, used for more than 6,000 candidates from roughly 100 countries. It covers cases, documents, secure payments, subscriptions and automated follow ups.

- Management of cases, documents, collaborators and notifications.
- Secure payments and subscriptions, with OAuth 2.0 authentication.
- Automated follow up communications and engagement analytics to support decision making.

**Environment:** C# / .NET, React, PostgreSQL, OAuth 2.0, Stripe, REST APIs.

**Live at:** [bluebird-immigration.com](https://bluebird-immigration.com)

## **FINANCIAL ANALYSIS PLATFORM | Personal decision support project**

- Financial data analysis platform in Python, PostgreSQL and FastAPI, exposed over REST APIs.
- Automated collection, transformation and analysis of market data, with signal generation and notifications.
- Machine learning model experimentation and an interactive visualization dashboard.

**Environment:** Python, SQL, PostgreSQL, FastAPI, REST APIs, machine learning, data processing.

## **AWARDS AND TRAINING**

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- Gold Stevie Award 2018 for the Haya Chiche! campaign
- Hawesse.com voted best website in Algeria, 2012-2013
- Hawesse.com, best mobile application award, 2014
- Training: Oracle Cloud Integration, SOLID principles, design patterns

## **EDUCATION**

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### **State Engineering Degree in Computer Science, Software Engineering**

Houari Boumediene University of Science and Technology (USTHB), Algiers

## **LANGUAGES**

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- French: fluent, spoken and written, day to day working language
- English: fluent, used in meetings, technical documentation and with international teams