

SAID RUSTOM

Solutions Architect · Senior .NET Engineer · Industrial Automation & AI Integration

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PROFESSIONAL SUMMARY

Solutions-focused full-stack engineer delivering enterprise platforms across federal government and advanced manufacturing. Specialized in architecting cloud-native .NET systems on Azure, embedding AI/LLM capabilities into production workflows, and bridging shop-floor operations with modern software architecture. Owned end-to-end delivery on systems managing \$1B+ in financial assets and 6,000+ SKU manufacturing operations. Recognized for translating ambiguous business problems into robust, production-ready solutions.

CORE COMPETENCIES

Architecture & Design: Distributed systems · Event-driven architecture · API design · System integration · MES / Industrial automation · Modular design

Languages & Frameworks: C# · .NET · ASP.NET MVC · Blazor · EF Core · Minimal APIs · REST · LINQ

Cloud & DevOps: Azure App Services · Azure Functions · Azure Storage · Azure DevOps · Azure Repos · CI/CD · Git · GitHub

AI & Data: Azure OpenAI / LLM integration · AI-driven analytics · SQL Server · Power BI · Data modeling

Microsoft Ecosystem: Power Apps · Power Automate · SharePoint Online · Entra ID · OAuth

Industrial & IoT: Zebra / ReaJet print systems · Microcontroller integrations · MaintainX · ERP integration · Predictive maintenance · Multilingual UI

PROFESSIONAL EXPERIENCE

Software Engineer / Solution Designer

2025 – Present

StyroRail · Wakefield, QC

Architected and delivered a factory-wide automation platform modernizing production, labeling, inventory, and predictive maintenance for a 6,000+ SKU manufacturing environment.

- Architected and shipped a full-stack .NET Blazor MES platform integrated with the corporate ERP, delivering real-time operational visibility across the production floor for the first time in the company's history.
- Designed and deployed automated industrial print systems (Zebra, ReaJet) with event-driven UI components, eliminating manual labeling errors across a 6,000+ SKU catalog.
- Integrated Azure OpenAI / LLM-powered insights into production and inventory analytics, surfacing patterns and anomalies that previously required manual analyst review.
- Engineered IoT-style sensor integrations using microcontrollers and MaintainX to stream real-time machine data, enabling the company's first predictive maintenance program.
- Built executive Power BI dashboards consolidating production KPIs into a single source of truth, and implemented dynamic multilingual UI translation to support bilingual operations.

Digital Solutions Research & Designer

2024 – 2025

Government of Canada · Ottawa, ON

Led architecture and design of enterprise digital solutions supporting federal programs, aligning technical delivery with policy and business objectives.

- Defined system architectures, integration strategies, and phased implementation roadmaps across multiple concurrent federal initiatives.
- Designed and developed enterprise Power BI dashboards consolidating data from multiple systems into unified reporting layers used by program leadership.
- Advised on modernization strategies ensuring compliance with federal standards for accessibility, security, and scalability.
- Acted as the technical bridge between policy stakeholders, enterprise architects, and development teams — translating ambiguous requirements into delivery-ready designs.

Application Developer

2023 – 2024

Government of Canada · Gatineau, QC

Contributed to a mission-critical federal financial system managing \$1B+ in trust assets and \$500M+ in annual cash flows.

- Designed and implemented scalable backend modules for financial processing using .NET and Minimal APIs.
- Developed secure REST APIs and integrations with external systems, adhering to enterprise architecture and federal security standards.
- Improved system performance and reliability through targeted debugging, query optimization, and end-to-end workflow enhancements while collaborating with subject-matter experts to refine functionality and onboard new program features.

EDUCATION

Computer Programming with Co-op (Honours)

Algonquin College of Applied Arts and Technology, Ottawa, ON