

NISHANT TAMILSELVAN

Portfolio Digital Architect · Government of Alberta

Enterprise AI Architecture & Governance

Portfolio Architecture · AI-Assisted Delivery

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PROFILE

Government does not fail at digital delivery because the technology is hard. It fails when legislation, policy intent, security obligation, and delivery reality are held by four different people who never share a document.

I hold all four. As Portfolio Digital Architect for the Government of Alberta, I set architectural direction across a six-ministry portfolio (Education and Childcare, Energy and Minerals, Indigenous Relations, Affordability and Utilities, Service Alberta and Red Tape Reduction, and Treasury Board and Finance) and translate statute and service need into architecture that teams can actually build against.

My work is deliberately close to delivery. I have taken an executive-priority system from requirements to production in six weeks, stood up new tribunal and case-management platforms on Alberta's digital service platform, and shipped the AI playbooks and reference patterns that let other teams do the same thing without re-deriving the governance every time.

MEASURED OUTCOMES

6 weeks — Executive-priority meeting request system. From requirements to production, including architecture, API contracts, deployment, and production readiness.

2 — Tribunal and case-management platforms. Established on the Alberta Digital Service Platform and running in production.

6 — Consolidated architectural direction. Six ministries aligned under a single architectural direction.

3 — Enterprise AI acceleration. Three reusable enterprise AI assets adopted by multiple delivery teams.

Protected B & C — Highest-sensitivity secure hosting. Initiated on OpenShift, with integration patterns defined.

99.99% — Critical system uptime after redesign. Legacy system overhauled with new high-availability and disaster-recovery patterns.

EXPERIENCE

Portfolio Digital Architect · Government of Alberta, Technology & Innovation

2024 – Present · Edmonton

- Architectural direction across a six-ministry portfolio; primary architecture decision-maker for digital services
- Executive-priority system delivered end-to-end in six weeks; tribunal and case-management platforms established on ADSP and live in production
- Built the enterprise AI enabler set: DDD AI Playbook, AI Toolkit, Architecture Playbook MCP
- Initiated Protected B & C secure hosting on OpenShift and defined secure integration patterns
- Standardized delivery on GitHub Flow, merge queues, staging gates, QA approval, rollback-ready deploys
- Mentor architects and developers across initiatives; run architecture review and knowledge-sharing forums

Senior Software Engineer · NielsenIQ

2022 – 2024 · Chennai

- Led 5+ proofs of concept and Neuro algorithm work, lifting advertising effectiveness 20%
- Cut application load time 30% and defects 20% through NgRx state architecture
- Integrated Timetap and Decipher into the core product: 50% functionality gain, 25% performance gain
- Recognized for the webcam-based eye-tracking POC on Neuro Webcam Services, a 30% engagement lift
- Mentored two engineers (40% productivity gain) and introduced agile practice across the division

IT Project Manager · Infaware Software Solutions

2019 – 2021 · Chennai

- Delivered 6+ hybrid mobile apps and 2 web platforms with Angular, Ionic, and Capacitor
- Cut development time 30% through a reusable front-end component architecture
- Shipped 8+ applications through Apple App Store and Google Play review
- Raised product development efficiency 40% via agile practice and A/B testing

Mobile Application Developer · PTC GPS-Services GmbH

2018 – 2019 · Koblenz, Germany

- Led UI modernization of a legacy mobile platform: 30% engagement lift, 85% fewer user complaints
- Cut post-release defects 25% through embedded QA collaboration
- Documented design patterns that halved new-developer onboarding time

PHP Web Developer · wizAI Solutions GmbH

2016 – 2017 · Koblenz, Germany

- Built digital-signage web applications and Symfony-based admin dashboards with D3.js visualization

Freelance Web Developer · NITTA Solutions

2014 – 2016 · Chennai

- Delivered client web presences end to end: front-end, PHP back-end, hosting, and SEO

CORE COMPETENCIES

Architecture & strategy: Portfolio architecture · Enterprise & solution architecture · Target-state roadmaps · Architecture decision records · Trade-off & risk assessment · Build-vs-buy & vendor evaluation
Enterprise AI: AI governance & assurance · RAG and retrieval architecture · Model Context Protocol (MCP) · Agentic workflows · AI delivery playbooks · GitHub Copilot enablement
Cloud & platform: Microsoft Azure · OpenShift · Alberta Digital Service Platform (ADSP) · Cloud-native & platform engineering · API & integration architecture · Mono-repo shared components
Security & compliance: Protected B & C hosting · Secure integration patterns · Identity & role-based access · Information protection · Privacy & accessibility obligations · Architecture review boards
Delivery & engineering: Azure DevOps · CI/CD & GitHub Flow · Merge queues & staging gates · Dual-track agile · SAFe · Full-stack background (Angular, React, Node, TypeScript)
Leadership: Executive stakeholder management · Cross-ministry alignment · Architect & developer mentorship · Knowledge systems & enablement · Technical writing · Multilingual delivery (English, Tamil, Hindi, German)

CERTIFICATIONS

Certified SAFe® 6 Advanced Scrum Master — Scaled Agile, Inc., Dec 2022
Certified SAFe® 6 Product Owner / Product Manager — Scaled Agile, Inc., Dec 2022
Certified SAFe® 6 Agilist — Scaled Agile, Inc., Nov 2022
New Models of Business in Society — UVA Darden School of Business, May 2020
Machine Learning for Business Professionals — Google, May 2020
ITIL® Foundation, IT Service Management — AXELOS, Jun 2017
Alberta AI Academy, Levels 1 & 2 — Government of Alberta, 2025 – 2026

EDUCATION

M.Sc., Web Science — University of Koblenz-Landau, Germany · 2015 – 2017
B.E., Information Technology — Anna University, India · 2011 – 2015

RECOGNITION & PUBLICATION

- Best Outgoing Student Award, co-curricular achievement
- Winner, Best Project Award (state level)
- COSTLESS CALL: An Emergency Response System During Disasters