

# Internal Capabilities Overview

Aurelia Digital Systems | January 31, 2026

## Company Snapshot

Founded	2016
Headquarters	Toronto, ON (with delivery teams across Canada and the U.S.)
Employees	120+ (engineering, delivery, security, UX, and program management)
Primary Focus	Enterprise software delivery, cloud modernization, data & AI, and managed services
Industries	Public sector, healthcare, utilities, financial services, logistics
Delivery Model	Agile delivery with formal governance, security-by-design, and measurable outcomes

## Core Capabilities

- **Cloud & Platform Engineering:** Azure landing zones, IaC, container platforms (AKS), observability, and reliability engineering.
- **Application Modernization:** domain-driven design, API-first microservices, legacy modernization, and performance hardening.
- **Data, Analytics & AI:** data integration, governance, semantic layers, and secure AI-assisted workflows with strong human oversight.
- **Security & Compliance Engineering:** threat modeling, secure SDLC, identity/PKI integration, and continuous security validation.
- **Enterprise Integration:** event-driven architecture, middleware integration, and robust API management patterns.
- **UX & Service Design:** user research, prototyping, accessibility, and enterprise-grade design systems.

## Solution Delivery Approach

Aurelia delivers complex initiatives using iterative delivery with clear governance. We combine rapid execution with formal controls (stage gates, design reviews, and security sign-offs) to ensure outcomes remain aligned to business objectives, timelines, and compliance requirements.

## Delivery Phases

- **Initiate:** confirm scope, stakeholders, operating model, and success metrics.
- **Discover:** requirements elaboration, current-state assessment, and risk/threat modeling.
- **Design:** target architecture, data flows, integration patterns, and solution backlog.
- **Build:** incremental delivery with automated testing, security checks, and demos.
- **Deploy:** release readiness, cutover planning, and operational handoff.
- **Operate & Improve:** monitoring, incident response, continuous improvement roadmap.

## Security, Privacy, and Compliance

Our security program is embedded throughout the delivery lifecycle. Controls are implemented as code wherever possible, with audit-ready evidence generated through CI/CD pipelines and operational tooling.

### Security Practices

- Defense-in-depth: segmented networks, least privilege access, and hardened baseline configurations.
- Strong identity controls: SSO integration (Entra ID), conditional access patterns, and privileged access workflows.
- Encryption by default: TLS in transit and managed keys at rest (e.g., Azure Key Vault / HSM-backed options where required).
- Secure SDLC: dependency scanning, SAST/DAST, secrets detection, and peer-reviewed change management.
- Operational readiness: monitoring, alerting, vulnerability management, and incident response playbooks.

## Technology Stack

- **Backend:** Python (FastAPI), background workers, REST APIs, OpenAPI-first development.
- **Frontend:** React, TypeScript, component libraries aligned to accessibility standards.
- **Cloud:** Azure (AKS, App Service, Functions), storage, messaging, and identity services.
- **DevSecOps:** GitHub Actions/Azure DevOps, IaC (Terraform/Bicep), policy-as-code, and observability tooling.
- **Data:** PostgreSQL, object storage, ETL/ELT patterns, and governance controls.

## Diagramming and Documentation

Aurelia produces architecture and process diagrams as version-controlled artifacts. We support text-based diagram definitions (including Mermaid) to enable consistent, reviewable, and automatable documentation workflows.

## Selected Experience (Representative)

- **Public-Sector Service Portal Modernization:** migrated legacy workflows to a secure cloud platform; improved release cadence from quarterly to bi-weekly.
- **Healthcare Data Integration Program:** implemented governed data pipelines and API integration; reduced manual reconciliation effort by ~40%.

- **Utilities Operations Enablement:** delivered role-based dashboards and alerting with audited access; improved incident triage time by ~30%.

## Quality and Governance

- Clear acceptance criteria and definition of done aligned to business outcomes.
- Automated testing strategy across unit, integration, and end-to-end layers.
- Formal design reviews, security checkpoints, and release readiness assessments.
- Transparent reporting: burn-up/burn-down, risk registers, and decision logs.

## Typical Delivery Team

- Engagement Lead / Program Manager
- Solution Architect
- Security Engineer
- 2–4 Backend Engineers
- 1–2 Frontend Engineers
- QA / Automation Engineer
- UX Designer (as needed)
- DevOps / Platform Engineer (as needed)

## Point of Contact

### **Business Development Office**

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