

# Mark Roberts

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**Senior Software Developer | Solution Architect**

## Summary

Senior Software Developer and Solution Architect with over 12 years of experience designing, building, and maintaining enterprise applications in complex Animal Health and Science domains. Strong background in .NET, SQL, and Microsoft-based systems across cloud and on-premises environments. Proven in technical leadership and mentoring.

## Experience

### Software Manager

**Holstein Canada | Innovations & Solutions | Brantford, ON**

**2024 – Present**

Modernized software development practices and infrastructure, driving adoption of modern DevOps workflows and cloud-based solutions. Transitioned source control and build pipelines from legacy SVN/local builds to Git and Azure DevOps, enabling automated CI/CD and improving release reliability. Actively contributed to architecture and development of critical applications while owning technical delivery across multi-stakeholder projects and presenting progress to executive leadership.

### Key Achievements:

- Implemented CI/CD pipelines in Azure DevOps, improving build stability and reducing deployment times.
- Established Git workflows, branching strategies, and SDLC processes, improving release quality and build success rates.
- Migrated legacy .NET codebases improving security, maintainability and performance.
- Improved automated testing and code review processes, reducing production defects and increasing test coverage significantly across applications.
- Reduced BI and data-related support tickets through automation and self-service features.

## Development Team Lead

### **Holstein Canada | Innovations & Solutions | Brantford, ON**

**2021 – 2024**

Directed software development and architecture for enterprise applications, delivering public-facing mobile apps and scalable SaaS solutions. Managed hiring and mentored developers while implementing modern development practices.

### **Key Achievements:**

- Delivered mobile apps for [genetic testing and animal registration](#).
- Led the architecture and development of an international SaaS system (mobile, web).
- Reduced production defects through automated testing and code reviews.
- Improved process efficiency by implementing infrastructure-as-code (IaC).
- Integrated Azure Cosmos DB, Data Factory, Functions, Blob Storage, and API Manager to provide modern, secure and scalable solutions

## Senior Fullstack Developer

### **Holstein Canada | Innovations & Solutions | Brantford, ON**

**2017 – 2021**

Developed and maintained enterprise systems, managed Agile-driven projects, and contributed to solution architecture. Designed complex data models, provided production support, and mentored junior developers.

### **Key Achievements:**

- Built and optimized enterprise systems using .NET Framework and .NET Core.
- Implemented automation and monitoring, improving data reliability.
- Implemented unit and integration testing frameworks.
- Provided support for business-critical applications and automated ETL processes.
- Reduced system downtime through proactive production support and logging automation and aggregation.

## Fullstack Developer

### **Holstein Canada | Innovations & Solutions | Brantford, ON**

**2013 – 2017**

Assisted in developing and maintaining enterprise applications, managing Agile-driven projects, and supporting production environments.

## Education & Certifications

- Certified Information Privacy Technologist (CIPT) – IAPP (Present)
- Management Skills for New Supervisors and Managers – Canadian Management Center (Nov 2025)
- Certificate in Machine Learning – York University (Planned Fall 2026)
- User Experience Researcher Certification – Akendi (2018)
- BA, Cognitive Science – York University (2010–2012, Incomplete)
- Diploma, Creative Advertising – Mohawk College (2007–2010)

## Skills & Technologies

### Architecture & Backend Development

- .NET Framework, .NET Core, .NET 6
- REST APIs, MVC, WCF, WinForms
- Enterprise application design and system integration

### Data & Analytics

- SQL Server (SSMS)
- SSIS, SSRS
- Data modeling, ETL automation, reporting

### Cloud & DevOps (Azure)

- Azure DevOps (Repos, Pipelines, CI/CD)
- Azure Functions, API Management
- Blob Storage, Cosmos DB
- Infrastructure-as-Code and deployment automation

### Frontend & UI

- JavaScript, HTML, CSS
- Webpack, Node

- React, Bootstrap, Telerik UI

## Mobile Development (Intermediate Level)

- Android (Kotlin, Jetpack)
- React Native
- MVVM architecture

## Testing, Quality & Automation

- Unit and integration testing (NUnit, MS Test)
- Code reviews and build validation (GitHub)

## Version Control

- Git (GitHub)
- SVN

## Scripting

- PowerShell

## Productivity & Delivery Tools

- Power BI, Power Automate
- Axosoft, Trello

***References available upon request***