Scott D Hodgson

📞 613-864-2475   ✉ 534448@gmail.com   🔗 iamscott.ca   🏠 Orleans, ON   ⊘ Secret

❝ Solution-driven, systems integrator, and passioned code-author on-the-clock. Smart home dabbler, gadget enthusiast, international student host, nature hiker, occasional gamer, and loving husband and parent off-the-clock. Furiously curious, always. ❞

Technologies / Tools   </>

.NET Core, Agile, AJAX, API, ASP.NET, ADO, ADO Agents, ADO Pipelines, ADO Releases, Bootstrap, C#, Chart.js, Chrome, CI/CD, CKEditor, CSS, DataTables, Edge, EF, ERD, Firefox, Font Awesome, Gherkin, Git, GWT, HTML, i18next, IIS, JS, JSON, JWT, LINQ, MVC, NLog, Node, NPM, NuGet, OAuth, OOP, PowerShell, Razor Pages, REST, SASS, Scrum, Selenium, SpecFlow, SQL, SQL Server, TAP, TS, Vite, Vue, VS, VS Code, WET-BOEW, WCAG, Web API, WebDriver, Windows, Windows Server, XML, xUnit, YAML

Employment

Technical Lead   Mar 2014 – Present

GoC \ IRCC \ TDSS \ Web Solutions

- Oversaw technical solutions across three distinct teams, led by different TLs, providing strategic guidance and expertise in full-stack integration across various technologies.

- Mentored cross-functional development roles, including BAs, Front-end and Back-end Developers, Database Developers, and QA Testers, to enhance cohesive integration efforts and development best practices.

- Assessed technical requirements, estimating effort, and defining solutions with cross-functional team collaboration.

- Architected comprehensive system solutions, segmenting needs into core functionalities aligned to features for modular implementation and flexible permission management.

- Advocated Agile development methodologies, introducing team members to Agile principles for iterative, collaborative development.

- Provided mentorship on development standards and Agile practices, fostering a culture of continuous learning and growth.

- Engaged with third-party vendors to evaluate, research, and perform cost-value analyses on potential products, ensuring alignment with organizational integration goals and project budgets.

- Established essential development tool baselines, including VS, VS Code, ADO Pipelines, ADO Releases, NPM, and Node, to optimize teams' productivity.

- Directed technology stack, utilizing .NET, API, ASP.NET, C#, OAuth, REST, MVC, Vite, and Vue for robust development.

- Mentored developers on technology stack, development workflows, and system intricacies to build a knowledgeable team.

- Organized "Lunch and Learn" sessions to upskill the team in areas such as JS fundamentals and Agile practices.

- Delivered training sessions and led pair programming, sharing knowledge and resolving development roadblocks.

- Defined development best practices, implementing PR policies, requiring approvals, automated testing, and code quality checks in ADO ensuring code stability and conflict resolution.

- Led code PR reviews and approvals, ensuring adherence to development standards and high-quality output.

- Automated testing and CI/CD pipelines, leveraging ADO for efficient, reliable deployment workflows.

- Participated in hiring processes, conducting interviews and attending job fairs to identify top talent.

- Engaged with the DPS team to design and configure ADO processes and DevOps Agents, supporting streamlined workflows and integration within project lifecycles.

- Coordinated with CRM and various divisions of SSC to deploy and configure application hardware and software, ensuring effective cross-functional integration.

- Configured and maintained NPE infrastructure, supporting both system hosting and build server operations.

Senior Developer   Feb 2010 – Mar 2014

GoC \ IRCC \ SIMB \ Grants and Contributions

- Analyzed complex data to make recommendations, drawing on experience counseling clients, management, and stakeholders.

- Contributed to requirements discussions, assessing feasibility, effort, and technical approach for actionable solutions.

- Assessed technical requirements, estimating effort, and advising on development approaches for effective project planning.

- Worked closely with TL, Product Owner, and BA to prioritize and triage development workload.

- Recommended and implemented TFS as a code management and build server solution, enhancing version control and build automation.

- Encouraged adoption of technologies, such as C#, ASP.NET, and TFS, fostering a robust and maintainable technology stack.

- Constructed prototypes demonstrating software solutions tailored to business requirements and goals.

- Participated in hiring processes by participating in interviews and evaluating candidate fit for development roles.

- Provided database architecture guidance, designing ERDs to support data consistency and scalability.

- Led and mentored junior developers on coding standards, methodologies, and best practices, fostering a collaborative team environment.

- Participated in pair-programming sessions to troubleshoot issues and work through development challenges collaboratively.

- Reviewed developer contributions, providing management with insights into code quality and team performance.

- Implemented Gated Check-Ins in TFS to ensure stable code integration and conflict resolutions before merges.

- Supported team evaluations, providing feedback on individual contributions to aid in performance assessments.

- Created and maintained VSTS publish builds for CI/CD, deploying consistently to NPEs.

- Configured and maintained NPE infrastructure for system hosting as well as established and supported TFS build server operations.

- Prepared and supported production release activities, defining necessary resources for successful deployment.

Senior Programmer/Analyst   Dec 2005 – Feb 2010

GoC \ IRCC \ SIMB \ Corporate Systems

- Conceptualized and implemented a modular reporting system leveraging Crystal Reports, decoupling report processing from applications, and delivering the S3-RS prototype.

- Authored complex SQL queries and database views within Sybase to analyze intricate relationships and provide accurate data for reporting requirements.

- Provided comprehensive support for the correspondence management system, WebCIMS, utilized by the MO, CMB, and the MSU.

- Collaborated with the MSU to analyze their business processes and develop WebCIMS functionality to manage and integrate medical DICOM image handling.

- Participated in change management processes, preparing technical solutions for deployment and configuration into production environments.

- Coordinated with infrastructure and database teams to successfully deploy solutions into production, providing updates to management on deployment progress and outcomes.

- Enhanced WebCIMS functionality through ASP.NET development, augmenting the system to meet evolving business needs and incorporating new features.

- Recognized as a primary contact for development and support due to consistent reliability and effectiveness in resolving technical issues.

- Acted as a PoC for clients, collaborating on feature design, implementation, and production support to address business needs effectively.

Junior Programmer/Analyst   Jan 2002 – Dec 2005

GoC \ IRCC \ IMTB \ Corporate Systems

- Participated in pair-programming sessions to work through development impediments.

- Provided technical assessment on business requirements, defining effort and approach.

- Collaborated with TLs, Product Owners, and BAs to triage and prioritize workload for new development and bug resolution.

- Implemented technical solutions effectively, with both quality and stability, providing value to clients and the department.

- Prepared deliverables for release into production infrastructure, defining required resources for successful release.

- Demonstrated key skills such as client service, adaptability, problem-solving, and teamwork.

- Developed innovative tools to streamline systems development, improving process efficiency and reducing project timelines.

Education   🎓

Algonquin College   2000 – 2001

Diploma: Computer Programming, Graduated with Honours

Global Knowledge   2020

Certificate: ADO

Learning Tree   2003 – 2024

Certificates (by subject matter): Angular, Architecting Enterprise Applications, ASP.NET Core, ASP.NET MVC, ASP.NET WebForms, Assertive Communication Skills Training, AWS Development, Blazor, Docker, gRPC, IIS, iPhone/iPad Development, Java Spring/Hibernate, LINQ, React, Securing Windows Server, SignalR, WCF, Web API

Systems 🖥

iCARE (Modernization)   Apr 2021 – Present

> **Technologies / Tools:** .NET Core, Agile, AJAX, API, ASP.NET, ADO, ADO Agents, ADO Pipelines, ADO Releases, Bootstrap, C#, Chrome, CI/CD, CSS, DataTables, Edge, EF, ERD, Firefox, Font Awesome, Git, HTML, i18next, IIS, JS, JSON, JWT, LINQ, MVC, NLog, Node, NPM, NuGet, OAuth, OOP, PowerShell, Razor Pages, REST, Scrum, SQL, SQL Server, TAP, TS, Vite, Vue, VS, VS Code, WET-BOEW, WCAG, Windows Server, XML, YAML

Description

The Immigration Contribution Agreement Reporting Environment (iCARE) is the sole data-collection portal for services provided by the Service Provider Organizations (SPOs) as part of their obligations defined in the Contribution Agreements established between the providers and the department. The information gathered by the system ensures accountability and compliance with the Contribution Agreement as well as provides insights into the effectiveness of policies and programs in settling newcomers to Canada.

Initiative

Modernize the existing system from the legacy technology stack into current paradigms, primarily .NET Core, REST API, and OAuth authentication models.

Accomplishments

- Architected the modernized application structure.
- Utilized the Duende OAuth 2.0 Identity Server to support authentication.
- Integrated Vue into the solution to manage the UI/UX.
- Mentored the team on new development tools and practices.
- Established CI/CD practices in ADO.

Internet Apps (Modernization of Edge Apps)   Apr 2021 – Present

> **Technologies / Tools:** .NET Core, Agile, AJAX, API, ASP.NET, ADO, ADO Agents, ADO Pipelines, ADO Releases, Bootstrap, C#, Chrome, CI/CD, CSS, Edge, Firefox, Font Awesome, Gherkin, Git, GWT, HTML, i18next, IIS, jQuery, JS, JSON, JWT, LINQ, MVC, NLog, NuGet, OOP, PowerShell, Razor Pages, REST, Scrum, Selenium, SpecFlow, TAP, VS, VS Code, WET-BOEW, WCAG, WebDriver, Windows Server, xUnit, YAML

Description

The Internet Apps are the Web Solutions team's provision of externally facing data collection interfaces supporting multiple areas of the department. The supported interfaces consist of the following, each representing a different division of the department: Crown Copyright

Clearance (CCC), Federal Internship Program (FINP), Francophone Initiative (FI), Notice of International Event or Meeting (NIEM), and the Youth Advisory Group (YAG).

Initiative

Modernize the existing system from the legacy technology stack into current paradigms, primarily .NET Core and REST API.

Accomplishments

- Upgraded the technology stack to .NET Core.
- Established CI/CD practices in ADO.

Intranet Apps (Modernization of Connexion Apps)   Apr 2021 – Present

> **Technologies / Tools:** .NET Core, Agile, AJAX, API, ASP.NET, ADO, ADO Agents, ADO Pipelines, ADO Releases, Bootstrap, C#, Chrome, CI/CD, CSS, DataTables, Edge, EF, ERD, Firefox, Font Awesome, Gherkin, Git, GWT, HTML, i18next, IIS, jQuery, JS, JSON, JWT, LINQ, MVC, NLog, NuGet, OAuth, OOP, PowerShell, Razor Pages, REST, Scrum, Selenium, SpecFlow, SQL, SQL Server, TAP, VS, VS Code, WET-BOEW, WCAG, WebDriver, Windows Server, xUnit, YAML

Description

The Intranet Apps are the Web Solutions team's provision of internally facing data collection interfaces supporting multiple areas of the department. The supported interfaces consist of the following, each representing a different division of the department: Connexion Language Toggle, Corporate Security Intake (CSI), GCMS Issues Intake (GII), Information Management Issues Tracking (IMIT), Machine Readable Zone (MRZ), and the Network Account Request Application (NARA).

Initiative

Modernize the existing system from the legacy technology stack into current paradigms, namely .NET Core, REST API, and OAuth authentication models.

Accomplishments

- Utilized the Duende OAuth 2.0 Identity Server to support authentication.
- Upgraded the technology stack to .NET Core.
- Established CI/CD practices in ADO.

eGEM   May 2019 – Present

Technologies / Tools: .NET Core, Agile, AJAX, API, ASP.NET, ADO, ADO Agents, ADO Pipelines, ADO Releases, Bootstrap, C#, Chart.js, Chrome, CI/CD, CKEditor, CSS, DataTables, Edge, EF, ERD, Firefox, Font Awesome, Gherkin, Git, GWT, HTML, i18next, IIS, jQuery, JS, JSON, JWT, LINQ, MVC, NLog, Node, NPM, NuGet, OAuth, OOP, PowerShell, Razor Pages, Rebex Mail, REST, SASS, Scrum, Selenium, SpecFlow, SQL, SQL Server, TAP, TS, Vite, Vue, VS, VS Code, WET-BOEW, WCAG, WebDriver, Windows Server, XML, xUnit, YAML

Description

The Email Management System (eGEM) is the primary solution for managing email responses from the Client Support Centre (CSC), ensuring agents respond with approved texts as well as providing management with business line management, oversight of agents' performance, and statistics.

Initiative

Replace the internal, unsupported systems, Alpha and InfoClient.

Accomplishments

- Decommissioned the InfoClient system.
- Championed the usage of .NET Core.
- Established CI/CD practices in ADO.
- Implemented Automated Testing.

Connexion Apps   May 2017 – Apr 2021

Technologies / Tools: .NET Framework, Agile, API, ASP.NET, ADO, ADO Agents, ADO Pipelines, ADO Releases, Bootstrap, C#, Chrome, CI/CD, CSS, DataTables, Edge, ERD, Firefox, Font Awesome, Git, HTML, IE, IIS, jQuery, JS, LINQ, MVC, OOP, PowerShell, REST, Scrum, SQL, SQL Server, VS, WET-BOEW, WCAG, Windows Server, YAML

Description

For brevity, description of this system is unchanged from the aforementioned Intranet Apps, only the name changed to generalize and disassociate with Connexion, the internal website.

Initiative

Provide a single solution, paired with a deployment infrastructure, supporting smaller internal departmental initiatives from divisions with limited budget. Cost savings realized through reuse of solution as well as minimal maintenance efforts.

Accomplishments

- Implemented multiple interfaces in the shared platform:

- o Connexion Language Toggle.
- o Corporate Security Intake (CSI).
- o GCMS Issues Intake (GII).
- o Information Management Issues Tracking (IMIT).
- o Machine Readable Zone (MRZ).
- o Network Account Request Application (NARA).

Edge Apps   Nov 2016 – Apr 2021

Technologies / Tools: .NET Framework, Agile, API, ASP.NET, ADO, ADO Agents, ADO Pipelines, ADO Releases, Bootstrap, C#, Chrome, CI/CD, CSS, Edge, Firefox, Font Awesome, Git, HTML, IE, IIS, jQuery, JS, MVC, OOP, PowerShell, REST, Scrum, VS, WET-BOEW, WCAG, Windows Server, YAML

Description

For brevity, description of this system is unchanged from the aforementioned Internet Apps, only the name changed to disambiguate from commonly used definitions of Edge.

Initiative

Provide a single solution, paired with a deployment infrastructure, supporting smaller internal departmental initiatives from divisions with limited budget. Cost savings realized through reuse of solution as well as minimal maintenance efforts.

Accomplishments

- Implemented multiple interfaces in the shared platform:
  - o Crown Copyright Clearance (CCC).
  - o Federal Internship Program (FINP).
  - o Francophone Initiative (FI).
  - o Notice of International Event or Meeting (NIEM).
  - o Youth Advisory Group (YAG).

iCARE (Original)   Dec 2012 – Apr 2021

Technologies / Tools: .NET Framework, Agile, ASP.NET WebForms, ADO, ADO Agents, ADO Pipelines, ADO Releases, Bootstrap, C#, Chrome, CI/CD, CSS, DataTables, Edge, ERD, Firefox, Git, HTML, IE, IIS, jQuery, JS, LINQ, OOP, PowerShell, REST, Scrum, SQL, SQL Server, VS, VS Code, Web API, WET-BOEW, WCAG, Windows Server, XML

Description

For brevity, description of this system is unchanged from the aforementioned iCARE (Modernization) project.

Initiative

Replace the deprecated system, Immigration Contribution Agreement Management System (iCAMS), with a replacement system that supported the current data capture needs of the client.

Accomplishments

- Decommissioned the iCAMS system.
- Architected the main concepts of the system.
- Designed the bulk-upload mechanism.
- Influenced the adoption of Agile Methodology.

e-Submission   Jul 2012 – Oct 2013

Technologies / Tools: .NET Framework, ASP.NET WebForms, Bootstrap, C#, Chrome, CSS, Firefox, HTML, IE, IIS, jQuery, JS, OOP, TFS, VS, VSTS, WET-BOEW, WCAG, Windows Server

Description

The e-Submission was the first digital intake portal for the collection of Call for Proposal (CFP) applications in the department.

Initiative

Provision of an intake portal for CFP applications designed to open for applications at a specific time, facilitate the collection of application packages, and finalize the delivery of the applications internally to the department.

Accomplishments

- Built and deployed the solution within a limited timeframe.
- Successfully captured CFP applications for multiple waves of intake.

iLOVE   Nov 2012 – Jan 2014

Technologies / Tools: .NET Framework, ASP.NET WebForms, Bootstrap, C#, Chrome, CSS, Firefox, HTML, IE, IIS, jQuery, JS, LINQ, SQL, SQL Server, TFS, VS, VSTS, WET-BOEW, WCAG, Windows Server

Description

The Immigration Language Online Verification Environment (iLOVE) was an interface to allow

officers to be able to issue queries against the data collected in the iCARE and iCAMS systems to verify if an individual has been confirmed to have met their language requirements as reported by Service Provider Organizations (SPOs).

Initiative

Develop an interface with the insights required into a client's language assessment data.

Accomplishments

- Built and deployed the solution within a limited timeframe.

WebCIMS   2005 – Feb 2010

Technologies / Tools: .NET Framework, ASP.NET, COM+, Chrome, Crystal Reports, CSS, HTML, IE, IIS, jQuery, JS, OOP, SQL, Sybase, VB6, VSS, Windows Server

Description

The Web Correspondence Information Management System (WebCIMS) was a third-party vendor COTS solution deployed in the department for managing correspondence in the Minister's Office (MO) and within the Case Management Branch (CMB). A subsequent additional instance was deployed to provide the Medical Surveillance Unit (MSU) a platform for managing the DICOM files associated with client medical screenings.

Initiative

Support and integrate expanded system reporting capabilities into the vendor product.

Accomplishments

- Decoupled reporting from the vendor product, as well as added flexibility to support other systems, into a separately hosted service called the Shared System Service Reporting Service (S3-RS).

OTS   2004 – Feb 2010

Technologies / Tools: Crystal Reports, InstallShield, Microsoft Access, MSI, OOP, SQL, Sybase, VB6, VSS, Windows

Description

The Outreach Tracking System (OTS) was the anonymized case management tool used by the department's Ombudsman to track the generalized statistics of the types of issues/cases being handled by the office.

Initiative

Upgrade the technology of the system to current standard of VB6 for desktop applications.

Accomplishments

- Built an abstraction layer separate from the specific requirements of the application, named the shared development framework.
- Shared development framework resulted in a bronze award at the 2006 GTEC Award Ceremonies.

LIMS   2003 – Feb 2010

Technologies / Tools: Crystal Reports, InstallShield, Microsoft Access, MSI, OOP, SQL, Sybase, VB6, VSS, Windows

Description

The Litigation Information Management System (LIMS) was the management system for legal cases that the Litigation division was responsible for handling on behalf of the department.

Initiative

Upgrade the technology of the system to current standard of VB6 for desktop applications.

Accomplishments

- Successfully upgraded and deployed the product.

MSUCM   2002 – Feb 2010

Technologies / Tools: Crystal Reports, InstallShield, Microsoft Access, MSI, SQL, Sybase, VB6, VSS, Windows

Description

The Medical Surveillance Unit Client Manager (MSUCM) was the tracking system for clients of the department that were in the process of being assessed for their medical screenings.

Initiative

Originally developed by a third-party vendor, the application became unsupported and required modifications to meet the current tracking requirements of the Medical Surveillance Unit (MSU) and technology standards of the department.

Accomplishments

- Successfully upgraded and deployed the product.

- Bypassed the original application's password protected database, avoiding loss of data.