

Full-Stack Software Developer | Web Applications, Cloud, Automation | [Professional Scrum Master](#)
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Professional Summary

Over 15 years of progressive experience as a full-stack developer, with strong DevOps and Cloud expertise. Proven track record of modernizing enterprise infrastructure, delivering working software, mitigating technical debt, and designing robust CI/CD pipelines. Highly adaptable technical leader with consistent success driving cross-functional Agile/Scrum teams. Proficient with a broad diversity of full-stack technologies, but most notably C#.NET, JavaScript/TypeScript, React, and SQL Server.

Professional Experience

Employment and Social Development, Canada *Gatineau, Quebec, Canada*

Senior Software Engineer, Infrastructure and Cloud Enablement (BDM Project)

December 2021 – July 2025

- **Enhanced and maintained microservices-architecture** application for onboarding personnel; integrated with enterprise IAM in Azure AD and Azure DevOps mirrored in Entra (C# .NET, Blazor, HTML/CSS, Azure Logic Apps, Azure SQL, APIM, GraphQL).
- **Implemented CI/CD pipelines** in ADO for build, test, cloud deployments, and triggering Azure Data Factory processes for the automated movement of data. Supported and advised other teams and team members on how to implement and manage their pipelines. (PowerShell, YAML, Docker, Kubernetes, Azure, AWS).
- **Administered Azure DevOps Services (ADO) for all teams** in the Benefits Delivery Modernization project; advised on implementation of custom Agile process templates; recommended branching strategies, pull request workflows, code review best practices, cross-project/organization credential management; ensured accessibility compliance aligned with departmental standards (e.g. WCAG). Provided expert advice for using Power BI to connect to ADO analytics.
- **Developed and deployed** custom web extensions with React, TypeScript, and Node.js.
- **Implemented ITSG-33** (based on NIST) security controls for SA&A submissions against a PBMM security profile.

Development Lead, Testing Services

August 2019 – November 2021

- **Architected Pipeline Integration:** Engineered ADO pipelines for automated testing, provisioning agent machines to execute parallel Selenium UI tests and seamlessly integrating logged test results back into ADO.
- **Designed and Implemented Internal QA Tools:** Co-architected an internal web application enabling QA staff to author structured test scenarios via a web UI; designed the database schema and developed the C# code bridging the application with ADO. Integrated tools with departmental headless CMS platform.
- **Modernized Performance Tooling:** Championed the departmental transition from LoadRunner to JMeter, significantly reducing licensing costs while maintaining robust performance testing capabilities.

Abrams Software

Kingston, Ontario, Canada - Remote

Full-Stack Developer

August 2025 – Present

- **Architect and Develop** an online multiplayer space trading game. Produced functional design document, technical specifications, and implemented minimum viable product. Node.js, TypeScript, Express.js, PostgreSQL.
- **Demo:** <https://twnr.paulabrams.ca>
- **Develop solutions** for supervised fine-tuning of Large Language Models (LLM) for large clients such as DataAnnotation.tech; evaluate code generation by applying expert code review combined with comprehensive unit testing. Consistently meet high-pressure deadlines. (JavaScript, TypeScript, .NET (C#), Python, React, SQL, REST, Node.js, MongoDB)
- **Developed** specialized chess training software integrated with Lichess.org API to help visualize board control and checkmating patterns. (React.js, TypeScript, OAuth2, REST)
- **Demo:** <https://pabrams.github.io/chess-attack-visualization>

Department of Immigration, Refugees, and Citizenship, Canada

April 2018 – August 2019

Ottawa, Ontario, Canada

Team Lead / Technical Lead

- **Conducted sprint planning/review/retrospective**, daily stand-up, and backlog refinement meetings. Pioneered capacity planning and forecasting processes using Azure DevOps Server (TFS) to establish best practices for broader departmental adoption.
- **Mentored Testing & Development Teams:** Provided ongoing mentorship to development teams in SSRS, T-SQL, C#.NET, and automated testing. Mentored junior personnel on crafting performant SQL queries for use in SSRS and SSAS reports connected to TFS databases and warehouses.
- **Administered & Extended ADO/TFS Infrastructure:** Managed departmental TFS instances and maintained heavily customized Agile, Scrum, and CMMI process templates.
- **Implemented and deployed** custom web extensions with React, TypeScript, and Node.js.

Department of Justice, Canada

January 2016 – March 2018

Ottawa, Ontario, Canada

Development Lead

- **Led the enhancement and maintenance** of the departmental case management system, a high availability web application serving all of the departments legal personnel – thousands of accounts and hundreds of daily users across the Country (ASP.Net, C#, SQL, JavaScript, HTML, CSS, SSRS). Assisted in gradual data migration (ETL) from legacy database to Microsoft CRM. (SSIS, SQL Server)
- **Mentored junior developers** and maximized Agile tracking efficiency by directly integrating code review processes with TFS work items.
- **Engineered MS Dynamics CRM plug-ins**, custom actions, and processes, and successfully migrated legacy SQL stored procedures to the new CRM environment using C# and LINQ.

Department of Citizenship and Immigration, Canada

April 2014 - December 2015

Ottawa, Ontario, Canada

Senior Software Engineer

Served as a centralized technical authority for the department's development ecosystem, administering Team Foundation Server (TFS) for the flagship GCMS application and providing tooling expertise to multiple distributed teams.

- **Transitioned the department** from manual, UI-based release procedures to **fully automated Continuous Integration/Continuous Deployment** workflows, significantly reducing deployment times and human error.
- **Slashed technical debt** by decommissioning over-engineered, legacy C# desktop applications used for release management, replacing them with lightweight, automated PowerShell scripts that used the TFS Client APIs.
- **Implemented and deployed** Team Foundation Server web extensions with React, TypeScript, and Node.js.
- **Provided expert advice** on software engineering best practices for multiple development teams across full agile and waterfall SDLC, including coding standards, code review, source control integration, PR workflows, automated build, and testing processes.
- Mentored junior personnel on crafting performant SQL queries for use in SSRS and SSAS reports connected to TFS databases and warehouses.
- **Guided development teams** in migrating from legacy XAML builds to modern, scriptable build definitions, **improving build reliability and maintainability across the organization.**

Department of Justice, Canada

Ottawa, Ontario, Canada

October 2006 – March 2014

Core contributor to the department's flagship Legal Case Management System, a distributed enterprise application used by 5,000+ lawyers and agents to manage sensitive case files, timekeeping, and billing across Canada.

Full-Stack Developer (2010-2014)

- **Modernized the Legal Case Management System (CMS)** by designing a widget-based interface using Knockout.js and ASP.NET, allowing users to personalize their workspace and reducing server load by eliminating full-page postbacks. Optimized SQL Server datasets and queries for scaled-up usage. Included gathering requirements during joint analysis and design (JAD) sessions, creating functional design documentation, iterating on prototypes, and creating technical specifications.
- **Migrated core business** modules from VB.NET to C# and upgraded the reporting engine from Crystal Reports to SSRS, **ensuring the longevity of the mission-critical CMS.**

Software Development Engineer in Test (2006-2009)

- **Identified a critical testing bottleneck and voluntarily architected** a custom Java-based framework in IBM Rational Functional Tester (RFT) that parsed English-language scenario documents and **auto-generated executable test scripts.**
- **Led a cross-functional team** to implement this solution, replacing manual 'all-hands' regression testing and **reducing release validation time by 98%** (from 80 person-weeks to 5 person-days).(Java, Entity Framework)
- Eliminated the need for a 2-week code freeze per release, **saving the department an estimated \$160,000 per cycle** in engineering hours.

Education

Bachelor of Computer Science

Carleton University

September 1999 - May 2003