

Shawn McGinn

BCS, MCS, CSSLP

IDP (Internal Developer Platform) Architecture & Development Engineer

Platform Engineering · AI Enablement & Governance · DevSecOps · Full-Stack Development

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SUMMARY

Solutions-focused and delivery-driven professional with extensive experience in coding, systems integration, program architecture, and systems analysis — now focused on platform engineering and helping enterprises adopt AI in software development safely. Proficient in software engineering and project management, with a proven ability to identify challenges and implement diverse technical solutions to ensure seamless project delivery. Demonstrates advanced technical skills and comprehensive knowledge of systems development methodologies, optimizing the design, development, and refinement of applications — from secure delivery pipelines to governed, human-in-the-loop AI agents and developer tooling. Adheres to a structured, security-first methodology, ensuring clarity and efficiency in development processes. Possesses outstanding interpersonal and communication skills, enabling rapid rapport building with team members, users, and management.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript/Node.js, Java, C/C++, Bash

AI & Agent Engineering: Model Context Protocol (MCP), LangGraph, Open Policy Agent (OPA)/Rego, LiteLLM, Langfuse, RAG

AI Developer Tools: Claude Code, GitHub Copilot, Google Gemini Enterprise, Windsurf, Replit, Google Antigravity

DevSecOps & AppSec: Checkmarx SAST/SCA, Prisma Cloud AppSec, Snyk, SonarQube, JFrog Xray, Tidelift, Dependency Track, HashiCorp Vault

Platform, CI/CD & Cloud-Native: OpenShift, Docker, GitLab CI, Jenkins, Terraform, JFrog Artifactory, Red Hat Dev Spaces

Data & Code Intelligence: PostgreSQL, MySQL, Oracle, MongoDB, Redis; GitLab Knowledge Graph, DeepWiki, Sourcegraph

PROFESSIONAL EXPERIENCE

Bell Canada, Saint John, NB

2022 – Present

IDP (Internal Developer Platform) Architecture & Development Engineer *(May 2025 – Present)*

Drives the architecture and hands-on engineering behind the AI-augmented evolution of Bell's Internal Developer Platform (IDP). Sets the technical direction for how autonomous AI agents, the Model Context Protocol (MCP), and AI-assisted developer tooling are governed, evaluated, and safely embedded into a secure, on-premise enterprise delivery environment. Pairs rapid proof-of-concept engineering with the security, governance, and economic rigor leadership needs to adopt AI at scale — carrying a security-first mindset from tool selection through architecture and delivery.

- Led and largely built a working reference implementation for governed, human-in-the-loop AI agents in the software delivery lifecycle — a policy-gated agent workflow (LangGraph orchestration with Open Policy Agent/Rego decisioning) integrated through MCP with live enterprise Jira and

GitLab, containerized and deployed to OpenShift via GitLab CI — establishing a model in which every autonomous action is paused for named human approval and fully audited.

- Designed a reusable, weighted-rubric assessment framework and led enterprise evaluations of AI-assisted development tools — Claude Code, Google Gemini Enterprise, GitHub Copilot, Windsurf, Replit, and Google Antigravity — delivering the business cases, security/compliance analyses, and cost/usage analytics behind leadership's adoption decisions; carried the Claude assessment from pilot to full enterprise adoption and rollout as a sanctioned, governed developer offering I continue to help manage.
- As one of Bell's early evaluators of the Model Context Protocol (MCP), assessed and integrated AI code-intelligence tooling for secure enterprise-codebase analysis — code-knowledge graphs (GitLab Knowledge Graph), AI documentation/RAG generation (DeepWiki), and code-search platforms (Sourcegraph, Orbit) — adapting cloud-oriented tools to run within Bell's on-premise environment.
- Prototyped design- and idea-to-market workflows to compress delivery time, including Figma-to-code generation through MCP, and evaluated emerging vendor products (Figma, Replit) against enterprise fit and security.
- Led development of a full-stack analytics application (React/TypeScript, Node.js, MongoDB) quantifying the economic impact of the IDP, and used it as a live demonstrator of an agentic, AI-driven delivery methodology (BMAD — Breakthrough Method of Agile AI-Driven Development); extended the methodology with a custom observability module and ran controlled A/B comparisons of competing AI dev tools building the same application.
- Co-authored the platform's leadership-facing "AI Uplift" roadmap — a Foundation → Harvest → Gap-Fill → Scale strategy with a staged AI-maturity model and layered governance — and own the architecture-documentation and publishing pipeline for the platform practice.

DevEx & DevOps Security Engineer & Governance Specialist *(Nov 2024 – May 2025)*

Led comprehensive security-tooling assessments, driving the introduction and implementation of IaC (Infrastructure as Code) and secrets-scanning tools. Evaluated and piloted ServiceNow's DevOps module, AppVR, and SBOM solutions for enterprise adoption. Played a pivotal role in the governance and oversight of Bell's Open Source Program Office, ensuring alignment with enterprise-wide security strategies.

- Authored an application-security platform evaluation (Prisma Cloud, Snyk, SonarQube, GitLab SAST, JFrog Xray, and Checkmarx) — weighing developer experience, IDE-integrated SAST, risk-based prioritization, and governance — to shape Bell's future DevSecOps tooling direction.
- Validated software supply-chain controls, proving that package-curation policies could automatically block vulnerable open-source dependencies before they reached developer environments.
- Implemented IaC and secrets scanning, enhancing code security across teams; led the evaluation and proof-of-concept to wire ServiceNow's DevOps module into existing CI for enterprise metrics and governance.
- Researched InnerSource adoption models and developer-collaboration health metrics to inform Bell's InnerSource and DevEx practices.
- Represented DevEx as an OSPO champion at Geekfest 2025, showcasing innovation and leadership while elevating Bell's presence within the open-source ecosystem.

DevSecOps Engineer with DevOps & Quality (DOQ) *(Oct 2022 – Nov 2024)*

Designed and optimized systems to streamline security workflows, contributing significantly to sSDLC pipeline architecture and delivery. Played a pivotal role in launching Bell's InnerSource program as one of its lead architects, and led the technical standup of the discovery portal. Built and maintained the SAST, SCA, and Tidelifit automations for the Bell DevOps pipeline solution and integrated

compliance-engine components; provided expert tiered support and helped ensure seamless migrations to GitLab and GitLab pipelines.

- Built and maintained automated solutions for SAST, SCA, Tidelift, and SBOM, serving hundreds of teams and delivering on innovative compliance components.
- Introduced and implemented the KEV and SCA programs, assisting project teams with onboarding and remediation prioritization.
- Conducted tools assessments in collaboration with vendors (e.g., Legit, Snyk, JFrog JAS) to ensure optimal solutions for DevSecOps needs.
- Provided tiered support for Jenkins security (e.g., credential leakage, environment exposure) and contributed to the Jenkins-to-GitLab migration; developed Docker Swarm solutions for both hosting and DevSecOps development.
- Developed automation of the SBOM enrichment solution and built the delivery mechanism integrated with ServiceNow's SBOM module.

E&Y / Lyfecycle Ops. Inc., Saint John, NB — Senior Analyst/Consultant**2017 – 2022**

DevSecOps Engineer with DevOps & Quality (DOQ) (Mar 2017 – Sep 2022) · Bell Canada

Drove continuous improvement — from POC to acceptance — of the tools and features making up the DevSecOps toolchain, building, refining, and integrating security tools into the sSDLC analysis suite. Built awareness of the open-source ecosystem and its emerging threats across project teams, and advocated holistic security and risk-management principles in software development.

- Lead architect and security evangelist for the implementation and adoption of both SAST and SCA solutions under Bell IT.
- Integral support for the Bell.ca team over a 2-year period, and 2 years of integration/delivery support — dev through production — for the OneSide team.
- Built out automated WebSphere infrastructure standup for OneSide.

Earlier Experience**1999 – 2017**

- **CMS/Weblogic Developer** — Mariner Partners (Bell Aliant), 2014–2017. Java/J2EE/Weblogic and Hippo CMS development; Apache security SME who led Heartbleed remediation across major systems.
- **DSS/DevOps Integrator** — Mariner Partners (Bell Aliant / Xwave), 2009–2013. Build/release integration and Tier-1 environment support across clustered and non-clustered delivery environments.
- **Senior Programmer/Analyst & Web Team roles** — University of New Brunswick, 1999–2008. Online application platforms; lead developer of the KIRA-nominated "Luci" accessibility tool; web technical lead and training.
- **Web Developer** — Service New Brunswick, 1999.

EDUCATION & CERTIFICATIONS

ISC2 — CSSLP, Active Member (in good standing) **2022****Scaled Agile — SAFe 5 DevOps Practitioner Certification** **2020****University of New Brunswick — M.C.S., Embedded Systems & Parallel Processing** **2007****University of New Brunswick — B.C.S., Software Systems** **2000**