

Stephen O'Neil

Full Stack Web App Dev

8+ years frontend | 5+ years backend & DevSecOps

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github.com/Stephen-O'Neil

➤ Currently **lead developer & technical advisor** for a **data services team**, serving a branch of **600+** employees

➤ Previously **lead developer** on **GC InfoBase** (canada.ca/gcinfobase, github.com/TBS-EACPD/infobase), a **React SPA client** backed by a **serverless GraphQL API**

Curriculum Vitae

01/2023 - ongoing | Lead Developer & Technical Advisor, Science and Parliamentary Infrastructure Branch, Public Services and Procurement Canada

- Advising on the technical aspects of the new branch-wide data policy
- Triaging an inherited portfolio of ~20 applications in various stages from prototype to pilot
 - Identified 10+ retired or stalled projects to decommission, directly reducing cloud bills, maintenance burden, and potential risks & attack surface
 - Maturing the remaining applications and infrastructure (e.g. eliminating manual deploy steps, implementing automated rollback capabilities, hardening configurations, etc.)

09/2017 - 12/2022 | Lead Developer, Expenditure Management Sector, Treasury Board of Canada Secretariat (TBS)

- Lead the GC InfoBase project since Summer 2018; was responsible for the project's technical direction, overall design, and for the team's developer talent
 - Iterated on and maintained the project's large React frontend
 - E.g. through gradual refactors of legacy code, brought the average turn around of routine site updates [from a baseline of 5 business days to an average of 0.13](#)
 - Built backend microservices to support the main application
 - E.g. built a versatile template based form service, used to collect, validate, store, and alert the team across multiple lines of in-app user feedback
 - Architected and administered infrastructure and operations for the project
 - E.g. transitioned hosting from tenancy in an external team's servers to cloud platforms & an in-house DevOps culture, taking deploying from days to minutes
 - Developed tooling to multiply team productivity and reinforce best practices
 - E.g. implemented automated end-to-end WCAG 2.1 accessibility testing for CI
 - Championed code standards, review practices, testing, CI/CD, and working in the open
 - E.g. pitched stakeholders on open sourcing the project; was awarded in recognition of the positive impacts one year later
 - Hired, supervised, and mentored junior developers and CO-OP students
- Built the data collection tool used for centralized tracking of COVID-19 related expenditures across all government departments
 - Quickly learnt Python, Django, an existing internal platform's code & environment, and the business requirements; met the ambitious 3 month deadline provided for launch
 - Independently developed the new collection tool off of the existing platform, with robust domain-specific user and admin workflows
 - Contributed lasting improvements to the existing platform's testing practices

01/2015 - 09/2017 | Student, Office of the Chief Human Resources Officer, TBS

- Self-taught JS, HTML, CSS, and Git; developed the early HR data portions of GC InfoBase

Languages

- TypeScript & JavaScript
- HTML ➤ CSS & Sass
- sh & Bash ➤ Python

Libraries & Frameworks

- React ➤ Lodash
- GraphQL ➤ Jest
- React Testing Library
- Cypress ➤ Axe-core
- Webpack ➤ Express.js
- NextJS ➤ Django

Tools

- POSIX environments
- Git ➤ VSCode ➤ Docker

Platforms

- Google Cloud Platform
- MongoDB Atlas
- DigitalOcean ➤ CircleCI

Other Skills & Competencies

- Mentorship
- Automation
- Strategic leadership
- Architecture
- Accessibility
- Application Security

Education

Honours B.Sc. Physics-Mathematics, uOttawa
2017, Cum Laude