

# Stephen O'Neil

## Full Stack Web App Dev

8+ years frontend | 5+ years backend & DevSecOps  
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- 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](https://canada.ca/gcinfobase), [github.com/TBS-EACPD/infobase](https://github.com/TBS-EACPD/infobase)), a **React SPA client** backed by a **serverless GraphQL API**

## Curriculum Vitae

**Lead Developer & Technical Advisor** | 01/2023 - ongoing  
*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.)

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

- Lead the GC InfoBase project beginning in 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 to 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 the 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

**CO-OP Student & part-time developer** | 01/2015 - 09/2017  
*Office of the Chief Human Resources Officer, Treasury Board of Canada Secretariat*

- 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
- SQL

## Libraries & Frameworks

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

## Tools

- Git      ➤ VSCode
- Linux      ➤ Docker
- MongoDB      ➤ PostgreSQL

## Platforms

- Google Cloud Platform
- DigitalOcean ➤ CircleCI
- GitHub Actions

## Other Skills & Competencies

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

## Education

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