

# Stephen O'Neil

## Full Stack Web App Dev

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[github.com/Stephen-O'Neil](https://github.com/Stephen-O'Neil)  
[github.com/TBS-EACPD/infobase](https://github.com/TBS-EACPD/infobase)  
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- Honours B.Sc. Physics-Mathematics, uOttawa
- **Senior JavaScript developer, full stack** at Treasury Board of Canada Secretariat (TBS)
  - **4+ years front end.** React, Lodash, Sass, D3
  - **1.5+ years back end, DevOps.** Node, GraphQL, MongoDB, Google Cloud
- E.g. **GC InfoBase** ([canada.ca/gcinfobase](https://canada.ca/gcinfobase)), a SPA React frontend backed by a serverless GraphQL API, offering data vizualization and exploration vectors

## Developer

- *Prefer done right, right now, over done yesterday. The "done yesterday" mindset is opposed to "still works tomorrow".*
  - Me, on my resume
- JS expert, HTML & CSS proficient. Framework of choice React. Strives to make ethical and user-centric design decisions, from speed to A11y
- ECMAScript proposal watcher, excited for the pipeline operator and optional chaining + nullish coalescing. Ride the wave of JS progress!
- Generally borrows heavily from the functional paradigm, prefers declarative APIs (internally), and loves formulating robust data-driven control-flow
- Environment of choice is VS Code and command line tools. Most at home with Linux or Posix (macOS) systems.
- Git and GitHub fan, with years of experience using and helping others to learn the tool & service

## Extracurricular

- Unix nerd, [github.com/Stephen-O'Neil/.dotfiles](https://github.com/Stephen-O'Neil/.dotfiles)
- Local tech meet-ups
- Reading novels (Sci-fi, fantasy) & comics (web, indie)
- Listening to music (misc) & podcasts (comedy, tech)
- Night-time walking

## Operations

- Strong believer in DevOps, personally bringing both the "Dev" and the "Ops" to the greatest feasible extent
- Automation and Bash scripts! Getting fancy with CI! Serverless microservices! Easy & safe deploys! It's rewarding and fun.

## Security

- Pushing *from* the left, bringing security-by-design to the design stages of Dev and DevOps tasks
- Staying up-to-date with SecOps and AppSec news and best practices through blogs, mailing lists, podcasts, and the local OWASP meet-up

## Curriculum Vitae

- **09/2017 - Ongoing** – Senior JavaScript Developer, Expenditure Management Sector (EMS), TBS
  - Maintaining the GC InfoBase front end source code, at ~50,000 lines of JS. Implementing, and guiding junior Devs' implementation of new features while ensuring continued maintainability
  - Building backend components for the main SPA, including a GraphQL data-fetching API and an email backend (obviating mailto:)
  - Hiring, supervising, and mentoring of CO-OP students; 7+ to date
  - Championing for code standards, code review, testing, CI/CD, and Open Sourcing/working in the open
  - Transitioned hosting from a static file server administered by a separate team to a self-administered cloud hosting setup, bringing the deployment process from days to minutes, gaining more flexible, faster hosting & a real backend, and doing it all for negligible hosting costs
  - Providing a security audit function within my team, identifying more, and more relevant, risks and sensitive bugs than our IT security's commissioned App scans
- **01/2015 - 09/2017** – Developer/Junior Analyst/CO-OP Student, Office of the Chief Human Resources Officer (OCHRO), TBS
  - Developed and maintained OCHRO's portions of the GC InfoBase
  - SQL, SAS, Java. Responded to ad-hoc requests for government-wide HR data, automated the periodic ones
- **09/2012 - 04/2017** – Honours Bachelour of Science, Physics-Mathematics with CO-OP, University of Ottawa
  - Dean's Honour List 2014-2015 (for an annual GPA of 8.5+)
  - Founding president of uOttawa Computational Physics Club