

Stephen O'Neil

Full Stack Web App Dev

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github.com/Stephen-O'Neil
github.com/TBS-EACPD/infobase
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Ottawa, Ontario

- Honours B.Sc. Physics-Mathematics, uOttawa
- **Senior JavaScript developer, full stack** at Treasury Board of Canada Secretariat
 - ~4.9 years front end — React, Lodash, Sass, ESNext
 - ~1.7 years back end/DevOps — Node, GraphQL, MongoDB, Google Cloud, Docker, CircleCI
- E.g. **GC InfoBase** (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 performance 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
- Always keen to invest in skills, both tech *and* soft. Current focus: provide higher quality PR feedback
- Environment of choice is VS Code and command line tools. Most at home with Linux or Posix (macOS) systems

Extracurricular

- Unix nerd, [github.com/ Stephen-O'Neil/.dotfiles](https://github.com/Stephen-O'Neil/.dotfiles)
- Reading novels (Sci-fi, fantasy) & comics (web, indie)
- Listening to music (all sorts) & podcasts (comedy, tech)
- Collecting and playing analog synths (beginner)
- Night-time walking

Operations

- Strong believer in DevOps, with a current position combining both the lead Dev and Ops roles
- Automation and Bash scripts! Getting fancy with CI! Dev tooling! Easy & safe deploys! It's fun to build *and* a solid project investment

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 local meet-ups

Curriculum Vitae

- **09/2017 - Ongoing** – Senior JavaScript Developer, Expenditure Management Sector, Treasury Board of Canada Secretariat (TBS)
 - Responsible for the GC InfoBase source code, at ~57,000 lines of JS. Implementing new features and guiding junior devs' while ensuring continued maintainability. Constantly oiling the machine
 - Building backend components for the main SPA, E.g.
 - a GraphQL data-fetching API using GCloud functions and MongoDB
 - an email form microservice providing and validating templates, brokering to keep sender/receiver emails anonymous, and mitigating spam. Keeps :mailto links and their inconsistent UX out of the front-end while ensuring that received communications are of high quality
 - Architecting and administering project DevOps, E.g.
 - 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 and providing a real backend + flexible & faster hosting. All for negligible operating costs!
 - Acting as champion for code standards, code review, testing, CI/CD, and Open Sourcing/working in the open
 - Hiring, supervising, and mentoring of CO-OP students; 7+ to date
 - Providing a security audit function within the team, identifying more real 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, TBS
 - Developed and maintained HR portions of the GC InfoBase. Built tooling to automate, and handled, data requests using SQL, SAS, and Java
- **09/2012 - 04/2017** – Honours Bachelour of Science in Physics-Mathematics with CO-OP, Cum Laude, University of Ottawa
 - Founding president of uOttawa Computational Physics Club