

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

- Senior developer, full stack
 - ~6.9 years frontend
 - ~3.7 years backend & DevOps
- Currently lead on GC InfoBase (canada.ca/gcinfobase), a React client backed by a serverless GraphQL API, presenting government data to the public through visualizations and exploration tools
- Honours B.Sc. Physics-Mathematics, uOttawa (2017)

Skill Highlights

- **Languages**
 - JavaScript & TypeScript – HTML5 – CSS & Sass – sh & Bash – Python 3
- **Libraries & Frameworks**
 - React – GraphQL (E.g. Apollo) – Lodash – Webpack – Jest – Express.js – Mongoose – Django
- **Tools, Platforms, & Environments**
 - git – VSCode – Docker – CircleCI – Google Cloud – MongoDB Atlas – Unix & POSIX systems
- **Other**
 - Architecture – UI/UX – A11y – Hiring, supervising, and mentoring – Interfacing with management and partners

As a Developer, I...

- *Prefer done right, right now, over done yesterday. The "done yesterday" mindset is opposed to "still works tomorrow".*
 - Me, here, on my resume
- Strive to make ethical and user-centric design decisions, from performance to accessibility
- Value developer experience and project velocity, but not at the compromise of maintainability or user experience
- Continuously seek to invest in my skills, both tech & soft
 - I keep up with 60+ web dev blogs & news letters in my free time. Sunday morning habit

Curriculum Vitae

09/2017 - Ongoing – Senior Developer, Expenditure Management Sector (EMS), Treasury Board of Canada Secretariat (TBS)

- Lead GC InfoBase developer since Summer 2018, responsible for the project's technical direction, overall design, and developer talent
 - Iterating on and maintaining the large React frontend
 - E.g. wrote an accessible typeahead search capable of displaying mixed local/async results, replacing an unmaintained and less flexible library
 - Building backend microservices to support the main application
 - E.g. built a flexible form template service, used to collect, validate, store, and alert the team across multiple lines of user feedback
 - Architecting and administering infrastructure and operations
 - E.g. transitioned hosting from a static file server administered by an external team to cloud hosting & an internal DevOps culture. Brought the deployment process from days to minutes while providing a capable backend + flexible & faster hosting at negligible cost
 - Developing tooling and practices as multipliers on team productivity
 - E.g. CI deployments of full, per-branch, development builds for quicker feedback and review cycles
 - Championing code standards, review practices, testing, CI/CD, and working in the open
 - E.g. convinced colleagues and upper management of the benefits to going open source; awarded in recognition of the impacts one year on
 - Hiring, supervising, and mentoring of junior developers and students
 - Supervised 10 students to date, 5 of which have returned for subsequent terms with 2 joining the team upon graduation
- On an emergency placement, built the 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 needs; began implementation by day 6
 - Individually developed the new collection tool off the existing platform, with robust user and admin workflows, meeting a tight 3 month target
 - Contributed refinements to the existing platform's testing patterns

01/2015 - 09/2017 – Student, Office of the Chief Human Resources Officer, TBS (alternating full-time CO-OP terms and part-time contracts)

- Developed early HR portions of GC InfoBase. Self-taught JS/HTML/CSS, git, and the code base itself to do so, despite isolation from core dev team

09/2012 - 04/2017 – Honours Bachelour of Science in Physics-Mathematics, University of Ottawa