

# Stephen O'Neil

## Full Stack Web App Dev

[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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Ottawa, Ontario

➤ Senior developer, full stack

➤ ~7 years frontend

➤ ~3.8 years backend & DevOps

➤ Lead developer on **GC InfoBase** ([canada.ca/gcinfobase](https://canada.ca/gcinfobase)), a **React SPA 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)

## 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 project's large React frontend
    - E.g. wrote an accessible typeahead search component capable of displaying mixed local & async results, replacing an unmaintained and less flexible external 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
  - 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 existing code base to do so

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

## Languages

- JavaScript & TypeScript
- HTML5
- CSS & Sass
- sh & Bash
- Python 3

## Libraries & Frameworks

- React
- GraphQL (E.g. Apollo)
- Lodash
- Webpack
- Jest & React Testing Library
- Cypress
- Express.js
- Mongoose
- Django

## Tools

- git
- VSCode
- Docker

## Platforms

- Google Cloud
- MongoDB Atlas
- CircleCI