Stephen O'Neil

Full Stack Web Application Developer

10+ years frontend | 7+ years backend & DevSecOps
github.com/Stephen-ONeil | stephenlevioneil@gmail.com

➤ A **lead developer** & **senior technical advisor**, modernizing Canada's public health **data platforms** & **infrastructure**
➤ Previously **lead developer** on **GC InfoBase** (canada.ca/gcinfobase, github.com/TBS-EACPD/infobase), a **React SPA client** backed by a **serverless GraphQL API**

Resume

Lead Developer & Senior Technical Advisor (acting) | 06/2023 - ongoing
Data, Surveillance and Foresight Branch, Public Health Agency of Canada

➤ Contributed logging utilities to the branch's internal Django library, enabling standardized, enriched, and security policy compliant logs in both Google Cloud & Azure environments
➤ Lead infrastructure and security architecture design and implementation for the branch's first Kubernetes-based Django application deployment
  ▷ Coordinated with project managers, application developers, and IT security to collect and track business and technical requirements, designing a corresponding architecture
  ▷ Achieved a production-ready deployment and provided lessons-learned for future kubernetes use within the organization

Lead Developer & Technical Advisor | 01/2023 - 06/2023
Science and Parliamentary Infrastructure Branch, Public Services and Procurement Canada

➤ Advised on technical aspects of a branch-wide data policy refresh
➤ Triaged an inherited portfolio of ~20 projects 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
  ▷ Matured the remaining applications and infrastructure by 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; held responsibility 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 deploy times 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. sold stakeholders on open sourcing the project; was awarded in recognition of the direct 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
  ▷ 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

Education

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

Certifications

Google Cloud Certified - Professional Cloud Architect [(tinyurl.com/oneil-gcp-cert)](tinyurl.com/oneil-gcp-cert)

Languages

➤ TypeScript & JavaScript
➤ HTML ➤ CSS & Sass
➤ Python ➤ SQL
➤ sh / Bash / POSIX shells

Libraries & Frameworks

➤ React ➤ GraphQL
➤ Lodash ➤ Jest
➤ React Testing Library
➤ Astro ➤ Axe-core
➤ NextJS ➤ Django
➤ OpenTelemetry

Tools & Software

➤ Git ➤ VSCode
➤ Linux ➤ Docker
➤ Kubernetes ➤ Kustomize
➤ PostgreSQL ➤ MongoDB

Platforms

➤ Google Cloud Platform
➤ DigitalOcean ➤ CircleCI
➤ GitHub Actions

Other Skills & Competencies

➤ Architecture ➤ Automation
➤ Application security
➤ Accessibility ➤ Mentorship
➤ Strategic leadership