

# DINH NGUYEN (BRIAN) PHAM

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## PROFESSIONAL WORK EXPERIENCE

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### CGI, Victoria, BC, Canada

*Full-Stack Developer/ Consultant - Western Business Unit*

*Mar 2024 – Current*

- Contracted to work on robust and secure web applications for the Ministry of Health.
- Developed data pipelines on an **Apache Camel service with Java 17**, enabling the collection of **medical data for over 10,000 medical practitioners in BC**. [GitHub](#)
- Assisted in the deployment of an **Apache Airflow application** on OpenShift, **automating the process of manual ETL extracts**, which was costing the Ministry **over 200 hours a year**. [GitHub](#)

### BC Public Service, Victoria, BC, Canada

*Full-Stack Developer Level 2 - Business Modernization (Promotion)*

*Sep 2023 – Mar 2024*

*Full-Stack Developer TA - Business Modernization (Promotion)*

*Jan 2023 – Sep 2023*

- Worked on modernizing legacy solutions for the WorkBC brand of the Ministry of Social Development.
- Successfully led development of an **email marketing platform to 8,000 customers** using ExpressJS, NextJS and Matomo analytics, **achieving a 60% increase in engagement rate** with WorkBC employment services. [GitHub](#)
- Modernized WorkBC Wage Subsidy form management processes by developing a full stack data collection platform using react-admin, ExpressJS and PostgreSQL, **improving user experience** and **simplifying data collection pipelines** through the use of **RESTful APIs**. [GitHub](#)
- Developed a URL shortening solution with ExpressJS to attach analytics on emails and WorkBC URLs.
- Wrote unit tests with Jest; end-to-end tests in Selenium for React and ExpressJS, achieving **80% unit test coverage**.
- Automated the process of testing, building and pushing Docker Images using GitHub Actions, saving up to 30% in deployment time, while reducing down time to a minimum.
- Acted the main Platform Developer of the Division, creating **Dockerfiles, BuildConfigs and DeploymentConfigs** for **deploying React-based applications to a Kubernetes platform** (OpenShift).
- Upgraded WorkBC Mobile Application from React Native version 0.64 to React Native version 0.69.
- Introduced NextJS as a viable solution for developing modern Full Stack solutions.
- Prototyped a solution for a Content Management System alternative for SharePoint 2016 using NextJS, NextAuth with Keycloak, Strapi as headless CMS.

*Web Analyst Co-op - Business Modernization*

*Sep 2022 – Dec 2022*

- Modernized an existing internal Project Tracking system feature, including a redesign of the UI using React, PnPjs and SharePoint REST API.
- Introduced and standardized the usage of React in SharePoint Framework (SPFx) webparts for customizing SharePoint modern sites by **creating development guides, SOPs and hosting workshops**.

## EDUCATION

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**University of Victoria** (*Graduation: 12/2025*) - B.Sc in Computer Science.

## PROJECTS/OPEN SOURCE CONTRIBUTIONS

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**Parsley AI - Retrieval augmented generation (RAG) application with OpenAI integrations** [GitHub](#)

- Developed a full stack AI-based tutoring platform using NextJS Server Actions, LangChain with OpenAI integration.

**Fider - Open Source Contribution** [GitHub](#)

- Contributed to a major release by: refactoring React class components to functional components; bug fixing user-raised issues on a Golang API.

## TECHNICAL SKILLS

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- **Languages:** TypeScript, JavaScript/HTML/CSS, SQL, Java, Bash, Python, C
- **Skills:** Full Stack Development, Cloud, Frontend, Backend, Databases (PostgreSQL and MongoDB), Mobile
- **Frameworks:** NextJS, ReactJS, VueJS, ExpressJS, Expo React Native