

Experience

Dvele

Kelowna, BC

Application Developer

June 2023 – Present

As a Web Application Developer at Dvele, I contributed to the development of web applications using React along with phone apps using React Native. My responsibilities included integrating RESTful APIs with Django rest framework, Creating CI/CD to AWS, conducting code reviews. I played a key role in optimizing application performance, this included moving many requests to React-Query.

Applied Solutions & Consulting

West Kelowna, BC

Software Developer

May 2019 – May 2020

Developed and maintained a dynamic website for a small business client, utilizing PHP to ensure robust functionality and an elegant user experience. Collaborated closely with stakeholders to understand business requirements and translate them into effective web solutions, enhancing the company's online presence. Implemented best practices in web design and development to create a visually appealing and highly functional platform that accurately represented the company's brand and services.

Technical Skills & Projects

Languages: Typescript, Python, Go, SQL

Frameworks: React, React-Native, Django RF, Pydantic, Redux, RTK Query

DveleIQ

- Architected a robust smart home solution using React Native and AWS leveraging AWS IoT Core, Lambda, and API Gateway to establish real-time, bidirectional communication with smart devices.
- Deployed the hub's software within a Docker Swarm cluster to ensure operational resilience, establishing a secure, zero-trust connection for continuous updates using Cloudflare Tunnels.

One Dvele

- Centralized all data across the home-building lifecycle, from initial lead to active homeowner, by integrating multiple data sources with DveleIQ to enhance data accessibility and process efficiency
- Engineered a BIM-to-BOM estimation tool that integrated with inventory software, providing live build and cost updates from exported Revit files
- Developed a Quality Assurance (QA) feature that streamlined home building project verification by requiring photo uploads and capturing owner approval via DocuSign integration.

Personal Server

- Set up and managed a home lab using Traefik as a reverse proxy and dynamic DNS to efficiently route traffic to various services.
- Utilized Docker containers across multiple compute units to host and orchestrate side projects, including custom DNS servers, game servers, and web applications.
- Leveraged hands-on experience with containerization, networking, and system administration to create a robust self-hosted platform for experimentation and learning.

Recursive DNS

- Designed and implemented a recursive DNS server that efficiently resolved domain names by querying root, TLD, and authoritative DNS servers.
- Optimized query performance through parallel requests and response caching, reducing overall DNS lookup latency.

Leadership & Activities

YMCA of Southern Interior

Kelowna, BC

Head Life Guard

2017 – 2023

I headed a team regularly of at least 12 lifeguards to ensure the safety of patrons. I assisted in the interviewing and hiring of new lifeguards; in addition to their career growth I had involvement in training and education. Working at the YMCA, I helped myself and others by creating software to automate regular tasks like verifying certifications.

Education

Okanagan College

Kelowna, BC

Bachelor's of Computer Information Systems - Software Design and Development Option

2018 - 2023