Ethan Frigon

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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.

Technical Skills & Projects

Languages: Typescript, Python, SQL, Go
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   **K**elowna, BC
Bachelor's of Computer Information Systems - Software Design and Development Option   2018 - 2023