

Sim Kalkat

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WORK EXPERIENCE

Pixieset - *Full Stack Developer - Vancouver, BC*

May 2024 – Present

- Security leadership: Primary security point of contact for an engineering team of 10; conduct regular security reviews and drive OWASP Top 10 mitigations across key application flows.
- Vulnerability management: Integrated automated scanning (TruffleHog) and added custom CI checks/hooks; partnered with DevSecOps to harden legacy code paths.
- AI & Search: Built facial grouping + search, improving high-dimensional vector retrieval. (Python DeepFace, AWS OpenSearch, Laravel 11)
- Performance: Refactored inadequate legacy queries, achieving a 300x performance improvement for flagship product databases.
- Cost Savings: Led a high-impact migration of captcha services, reducing annual operational overhead by over \$10,000.
- Testing enablement: Designed and implemented database seeders to generate realistic test data for smoke tests and edge cases, saving engineers hours of manual setup. (Laravel 11, MySQL, AWS)
- Product delivery: Shipped features and enhancements for the flagship product. (PHP Yii 2, Laravel 11, Vue 3, TypeScript, JavaScript)

Priceline - *Back End Developer - Winnipeg, MB*

May 2021 – May 2024

- Hackathon (Python feature engineering): Built a fuzzy-matching prototype to detect likely-duplicate hotel amenity names to support data normalization experiments. (Python, GCP)
- Built an automated pipeline to generate and publish OpenAPI documentation from code annotations; ran as a scheduled job (cron initially, later via GCP Cloud Scheduler), reducing manual documentation effort for affiliates. (Go, Python, JS, GCP)
- Reporting automation: Automated CSV and PDF generation by ingesting upstream data for Account Managers. (Go, PHP)
- SQL Optimization: Implemented a batch-processing implementation for SQL operations. Cutting down data run times from 6 hours to under 1 hour (83% efficiency gain). (Golang, PHP 8, MySQL)
- Incident response: Partnered cross-team to triage and resolve production incidents, reducing downtime from 2–3 days to 5 hours.
- API Development: Built and maintained RESTful APIs in a high-traffic environment using Test-Driven Development (TDD) to ensure reliability and decoupled, testable code. (Golang, Python, Bash, GitHub, Google Cloud Platform (GCP), Javascript, Typescript)

FleetOperate - *Full Stack Developer - Winnipeg, MB*

January 2020 – May 2021

- Launched initial products for shippers, drivers, and recruiters; supported 1,000+ daily shipments and high-volume customers using queue-based workflows for reliable high-traffic performance. (AWS DynamoDB, Amazon SQS, NoSQL)
- Improved filtering experience; increased key-shipment findability by 80%, boosting user satisfaction and engagement. (JS, TS, Angular 8/10/12)
- Mentored co-op students and new hires to help them onboard in a few days.
- Created the CI/CD pipeline for multiple services in AWS CodePipeline.

PROJECTS

Pantry: Food & Supply Tracking Tool

- Created at the beginning of the pandemic for my family to use. We tracked what food and supplies we had and needed with a built-in barcode scanning to prevent overspending and spoilage. (PostgreSQL, Python, Flask, JS, Heroku)

Scrimmage: Local Pickup Soccer Organizer and Manager Tool

- Facilitates effortless management of pickup soccer games through a dedicated web app. Enables game creation and easy sharing via a single link, eliminating the need for app downloads. (MySQL, Golang, Angular 14, Twilio, Vercel)

Study Buddy: Language Learning Tool with AI

- Web app to help learn unique phrases for myself so that I could speak natively to those around me. The app worked by creating a flash card system that could be accessed at home or on the go. (Vue3, Laravel, Perplexity API)

Personal Best (PR) Pals: Strava but for weightlifting

- IOS App built for friend groups to create and copy each other's workouts, diets, and other health related routines (Swift).

EDUCATION

University of Manitoba – BSc. Sciences (Computer Science)

June 2019