

Hakan Okay

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PROFESSIONAL SUMMARY

Software Engineer with 4+ years of experience building the parts that make products work: reliable backend services, clean frontends, automation, and the tooling that keeps teams moving. Comfortable across Go, TypeScript, React, and Python, with a habit of owning problems end-to-end and making them solid in production.

WORK EXPERIENCE

Software Engineer Sep 2024 — Present
Cisco (Meraki) *Ottawa, ON*

- Built the Workflows TypeScript SDK from scratch, including CLI tooling, React hooks, and session management, enabling internal and external teams to programmatically interact with the Workflows platform.
- Shipped 50+ features and improvements for the Workflows UI React frontend, including workflow designer enhancements, AI Assistant integration, internationalization support, and session management.
- Architected API key authentication for the Workflows platform by building a Go-based auth service with nginx auth subrequest validation, enabling secure external API access for production environments.
- Deployed and configured 30+ microservices across multi-region Kubernetes clusters (US, EU, AP) using Helm charts, managing ingress routing, CORS policies, and CI/CD pipelines.
- Implemented production API routing in the platform's API gateway to enable Workflows APIs across staging and production environments, including shard URL generation and region-specific configuration.

Software Engineer Sep 2023 — Sep 2024
TwinsMusic Enterprises *Ottawa, ON*

- Engineered a subscription-based sound and music library platform for content creators, owning the full technical stack from frontend to database to deployment.
- Delivered the web application using React, Next.js, and TypeScript, including search, subscription management, and content browsing features.
- Designed the backend API and PostgreSQL database schema, incorporating Redis caching and query optimization to support the platform's catalog and user data.
- Established CI/CD pipelines and introduced integration testing with Testcontainers, ensuring reliable delivery of new features from development through production.

Software Engineer Mar 2022 — Feb 2023
Bruin *Ottawa, ON*

- Created and shipped CLI features for a data pipeline tool using Python, streamlining pipeline development workflows for internal and external users.
- Integrated new analytics KPIs and optimized report generation using FastAPI and BigQuery, enabling faster and more granular client reporting.
- Automated data modeling for applications with similar characteristics through templating, accelerating new client onboarding across the platform.
- Constructed batch and streaming ETL pipelines using Kafka, Airflow, and Pandas, processing terabytes of data daily from 10 clients across 35 mobile applications.

SKILLS

Languages	Go, TypeScript, Python, SQL
Frontend	React, Lit.js, Next.js, Tanstack Start
Infrastructure	Kubernetes, Docker, Linux, CI/CD
Databases	PostgreSQL, MongoDB, Redis

EDUCATION

Diploma in Computer Programming	2022 — 2024
<i>Algonquin College, Honours</i>	
Bachelor of Science in Engineering	2014 — 2018
<i>Akdeniz University</i>	