

HAKAN OKAY

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SUMMARY

Software Engineer specializing in the design and implementation of web applications and services. Experienced in frontend and backend development, machine learning, and data processing. Previously worked at a VC-backed SaaS startup and multiple short and long-term contract roles across various industries. Fluent in Golang, Python, TypeScript, and SQL, with proficiency in Java.

EXPERIENCE

Software Engineer September 2023 - Present
TwinsMusic Enterprises Ottawa, ON

- Revamped a subscription-based music library using Next.js, React and AWS, boosting user engagement by 20%.
- Optimized the data model and queries of the Postgres database, improved system performance by 40%.
- Parallized tests using Testcontainers and Semaphore algorithm, reducing integration test execution times by 50%.
- Mentored junior developers in best practices and system design, did code reviews and weekly one-on-one sessions.

Software Engineer February 2023 - September 2023
hakanokay.dev Ottawa, ON

- Optimized ETL processes of a marketing firm, reducing execution times by 25% and saving over \$100,000 annually.
- Used machine learning to personalize ads for an e-commerce with ~4700 monthly users, boosting revenue by 15%.
- Developed a service for managing and testing machine learning models, allowing faster integrations on new models.
- Designed and built a web application to manage and track sales of an online business, reducing processing times by 30%.

Software Engineer March 2022 - February 2023
Bruin Ottawa, ON

- Added new features to a CLI performing data processing on the platform, reducing pipeline development times by 30%.
- Optimized an API generating analytics reports, integrated more KPIs and improved response times by 15%.
- Debugged the parser of an Airflow pipeline generation and management tool, and increased the test coverage by 10%.
- Automated data modelling for apps with similar characteristics through templating, allowing faster onboarding.
- Built and managed ETL pipelines processing terabytes of data daily, generated from 10 clients across 35 mobile apps.

SKILLS

Languages: Golang, Python, TypeScript, SQL

Frameworks: React, Next.js, Tailwind

Tools: Linux, Git, Docker, GCP

Databases: MySQL, PostgreSQL, MongoDB

Familiar with: Java, Airflow, React Native, Expo

PROJECTS

Quill: Chat with your PDF files.

TypeScript, React, Next.js, Tailwind, tRPC, Pinecone, Stripe
Live at quill.hakanokay.dev

WorldMaker: Create cities in your browser.

JavaScript, Canvas API, Data Structures (mainly Graphs)
Live at selfdriving.hakanokay.dev

EDUCATION

Algonquin College September 2022 - February 2024
Diploma in Computer Programming | Honours Ottawa, ON

Miul & Data Science Academy December 2021 - March 2022
Certificate of Data Science and Machine Learning Izmir, Turkey

Akdeniz University September 2014 - September 2019
Bachelor of Science in Engineering Antalya, Turkey