HAKAN OKAY

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SUMMARY

Adaptable, results-driven, versatile Software Developer with 3+ years of professional experience specializing in the design and implementation of diverse web applications and services across various technological frameworks, tools, and languages. *Fluent* in Python, SQL, and English, also written a *good amount* of TypeScript/JavaScript and *exposed* to Go and Java.

EXPERIENCE

Software Engineer - TwinsMusic Enterprises - Ottawa, ON   September 2023 - Present
- Developed an online music library using **Next.js** and **TypeScript**, styled with **Tailwind** and deployed on **Vercel**.
- Used **AWS S3** pre-signed URLs and **JWT** authentication to securely deliver media content to subscribers.
- Created the data model using **Prisma** and used **Supabase** to host a **PostgreSQL** database on the cloud.
- Implemented CI/CD pipelines on **GitHub Actions**, running **Jest** unit tests to prevent bugs and errors on production.
- Mentored a team of four developers, did code reviews, and identified software requirements and solutions.

Freelance Software Developer - hakanokay.dev - Ottawa, ON   February 2023 - September 2023
- Developed an application using **Next.js, FastAPI, MongoDB** to manage sale records, reducing data related issues by 80%.
- Built and deployed a web service using **FastAPI, Pydantic** and **Docker** to access predictions of machine learning models uploaded through a drag-and-drop interface built with **Streamlit**, deployed on **Google Cloud**.
- Trained and deployed a machine learning model for an e-commerce website with ∼4700 monthly users using **Python, Firebase, Scikit-learn** and **BigQuery**, boosting revenue by 15% via personalized marketing through predictions.
- Improved the efficiency of an ETL process ingesting data from an API by 25% using **Python, Pandas** and **BigQuery**.

Software Engineer - Bruin - Ottawa, ON   March 2022 - February 2023
- Built and managed ETL pipelines using **Airflow** to process ∼1 billion rows of user-generated data daily, originating from 10 clients across 35 mobile applications and various backends, warehoused on **Snowflake, BigQuery** and **Redshift**.
- Implemented the ability to run data transformations using **SQL** and **Python** on the same pipeline to a CLI tool written in **Go**, improving development efficiency, increasing test coverage, and adding more documentation.
- Optimized and added new functionalities to a **RESTful API** built with **FastAPI** querying **BigQuery** to generate analytics reports, integrating more KPIs and improving response times by 15%.
- Built an SQL generation engine using **Jinja, Python** and **SQL** to automate data modelling, allowing faster onboarding.
- Debugged the parser of a SQL-like querying language for cloud warehouses, increased the test coverage using **Pytest**.

SKILLS

Languages: Python, SQL, TypeScript, JavaScript, Go, Java
Frameworks: React, Next.js, Node.js, Spring Boot, Tailwind, FastAPI, Pandas, Scikit-learn
Tools: Linux, Git, Docker, Airflow, Prisma, GCP, AWS
Databases: MySQL, PostgreSQL, MongoDB

PROJECTS

Quill: Chat with your PDF files.
TypeScript, React, Next.js, Tailwind, tRPC, Pinecone, Stripe
Live at quill.hakanokay.dev

MusMe: Online music library for content creators.
TypeScript, React, Next.js, Tailwind, PostgreSQL, AWS
Live at musmelibrary.com

EDUCATION

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

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

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