

Niv Dotan

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Work Experience

Zim Integrated Shipping Services - Data Migration Specialist | 2024 - today

- Responsible for extracting, transforming, and loading (ETL) data from legacy systems into new databases using SQL, Python, and ETL frameworks.
- Developed and implemented data validation and cleaning processes using pandas and numpy libraries to ensure the accuracy and integrity of migrated data, reducing errors by 15%.
- Designed automated scripts to streamline the data migration process, which improved efficiency by 40% and reduced manual intervention.
- Collaborated with analysts, developers, and DBAs to understand data requirements, ensure seamless integration, and create documentation and tools for migration.

Rafael Advanced Defense Systems - Student | 2021- 2024

- Optimized database systems using Access and SQL, achieving a 30% reduction in data entry time, a 40% increase in data storage capacity, and a 25% reduction in data analysis time.
- Created automation solutions with VBA, leading to a 20% decrease in manual tasks and significantly improving operational efficiency.

Side Projects

Job Listing Web Application with Automated Backend & Telegram Bot Integration - [Link](#)

- Built a responsive frontend using HTML, CSS, JavaScript, React, and Node.js, enabling efficient browsing, filtering, and management of job listings spanning 500+ companies.
- Developed a Dockerized ETL backend to scrape job listings from 15+ ATS sources, process data with Apache Spark, and store it in a PostgreSQL database.
- Configured Airflow to schedule and monitor data workflows, ensuring consistent and accurate updates for automated processing.
- Designed a RESTful API with Node.js to handle high-volume queries, capable of managing up to 5,000 requests per day, with automatic scaling via Vercel.
- Implemented a Telegram bot in Python to deliver daily job updates, automating job data retrieval and notifications.

Encrypted Client-Server File Transfer System

- Developed a secure client-server application in C++ and Python, supporting up to 50 concurrent clients with AES-CBC for symmetric and RSA for asymmetric encryption.
- Designed a multithreaded communication protocol with 99.9% file integrity verification accuracy and automated retries
- Established a multithreaded communication protocol supporting multiple clients.

Skills

Programming languages: C/C++, Python, Java, JavaScript (Node.js), SQL, VBA.

Tools: Linux, Git, GitHub, Docker, Bash, Apache Spark, Apache Airflow, ETL pipelines.

Languages: Hebrew (native), French (native), English (fluent).

Education

2022-2026 - Computer science student, fourth out of five years, at The Open University of Israel.

2017 - Full high school diploma