Dori Rozen

Software Engineer

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💼 WORK EXPERIENCE

05/2024 – present
Backend developer
Muvan AI
Tel Aviv, Israel

Excel Automation: Developed sophisticated automation solutions for complex interconnected Excel spreadsheets using Python (xlwings, openpyxl) for property management software clients, successfully managing data extraction, transformation, and updates on scheduled intervals. Managed more than 30 Excel files, with an average of 20 sheets per file and between 200-100,000 rows of data per sheet.

Web Development: Created and deployed 23 data visualization websites using streamlit for client daily operations, enabling team members to access critical business metrics extracted from complex Excel datasets and custom-generated insights. Developed an admin dashboard accessible from each site, providing expanded views with additional details and control capabilities.

Cloud Infrastructure: Implemented and managed virtual machines on Microsoft Azure and AWS, configuring scheduled cron jobs to ensure twice-daily data refreshes across all client-facing websites.

AWS Lambda Implementation: Designed and deployed serverless automation workflows using AWS Lambda functions integrated with S3 storage, creating custom reporting solutions that delivered automated reports at client-specified intervals. These Lambda functions were developed for multiple clients requiring automation for various file processing needs.

Software Engineering Excellence: Applied advanced design patterns and SOLID principles to ensure clean, maintainable code architecture throughout all automation projects.

Language Model Integration: Leveraged NLP models to enhance Excel functionality and perform creative automation tasks. Implemented data preprocessing techniques to optimize metrics for website display.

Quality Assurance: Implemented comprehensive error handling, edge case management, and thorough testing procedures to ensure reliable operation of mission-critical data systems.

Project Management: Collaborated with cross-functional teams to optimize data workflows while managing entire project lifecycles from requirements gathering through deployment and support, working independently without supervision.

02/2024 – 09/2024   **Research Assistant | Diarization & Speech Processing**   Ariel, Israel

Ariel university

Neural Network Implementation: Implemented neural networks for speaker diarization, achieving automated voice separation in multi-speaker conversations.

Dataset Development: Created and cataloged multilingual speech datasets for training robust voice recognition systems.

Validation Framework: Built validation framework using language models and LangChain to evaluate neural network accuracy.

Algorithm Design: Developed algorithms for optimal conversation flow between audio recordings, ensuring natural context and cadence.

Quality Assessment: Created automated quality assessment comparing speech-to-text output against reference transcriptions.

Cross-functional Collaboration: Collaborated with researchers, engineers, and professors to integrate technology into real-world applications including transcription and audio indexing.

2018 – 2024   **Sales Manager**   Crete, Greece

Holiday Lines

Team Management: Served as a Sales Manager in Crete, overseeing a small team of employees.

Customer Service: Provided shuttle services from the airport to hotels and promoted attractions exclusively to Israeli tourists, ensuring an enriching vacation experience.

Operational Duties: Handled sales management responsibilities including supplier payments, employee management, sales enhancement initiatives, and ongoing operational oversight throughout the summer season.

Seasonal Position: Worked in this role for approximately three months each summer season.

🎓 EDUCATION

2020 – 2024   **B.Sc. in Software Engineering**   Tel Aviv, Israel

Afeka College

Specializing in Machine Learning

2011 – 2014   **High School**   Rishon LeZion, Israel

Mekif Gimel Ha Amit Amal

Accounting program.

🧠 SKILLS

Python
PyTorch
Deep Learning
Machine Learning
Computer Vision
NLP
LangChain - LLM`S
GenAI
Big Data - Spark

Management & Sales
Strategic Planning
Customer Relationship Management (CRM)
Team Leadership
Negotiation Techniques
Time Management

Personal
Dependable and team-oriented with a focus on process improvement and issue resolution.

Strong communication skills for both technical and non-technical audiences.

Attention to detail and quality assurance.
Analytical and creative problem-solving with critical thinking.

Self-motivated and adaptable with a proactive approach to learning and changing environments.

Flutter
Clean architecture
Design Patterns
Firebase

Extra
Yardiasp14 - Property Management Integration
Excel
Aws
Streamlit
Openpyxl | Xlwings
Data Mining & Analysis
Linux
Microsoft Azure

📇 PROFILE

B.Sc ⬈ **. in Software Engineering, specializing in Machine Learning, with a passion for continuous learning and expanding knowledge.**

Analytical, goal-driven software engineer with a strong aptitude for object-oriented programming and design principles.

I possess a solid foundation in programming across multiple platforms and excel at quickly mastering new technologies through self-learning.

Passionate about developing efficient automation solutions and implementing clean architecture practices to enhance system reliability.

My experience includes designing AI applications and building data processing pipelines, consistently delivering innovative solutions that balance technical excellence with practical business value.

I am deeply committed to achieving mastery in every field I pursue, with the ultimate goal of teaching and mentoring others—a mindset that drives me to consistently strive for excellence and complete proficiency.