

Sercan Yildiz

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Summary

- Junior .NET Developer with experience building applications using C#, .NET MAUI, MVVM, and SQLite.
- Developed and deployed a mobile inventory management app, implementing CRUD operations, filtering, and responsive UI with XAML.
- Strong understanding of object-oriented programming, REST APIs, and version control (Git).
- Built a machine learning model using TensorFlow to predict infant sleep states with 95% accuracy, complemented by team collaboration on data visualization and a website interface.
- Conducted cross-country COVID-19 policy impact analysis using R, merging datasets and creating visualization reports.
- Quick learner with a solid foundation in the software development lifecycle and collaboration in small project teams.
- Relocated from Turkey to Canada to advance a career in software development, with experience in C#, .NET MAUI, MVVM, and building user-focused applications.

Education

Seneca College

Ontario Graduate Certificate, Business Information Technology

Toronto, Ontario

September 2022– April 2024

Istanbul Technical University

Bachelor of Science, Mathematics Engineering

Istanbul, Turkiye

September 2016 – February 2022

Skills

Technical: C#, .NET, Git, Python, Matlab, R, TensorFlow, Keras, PyTorch, NumPy, Pandas, SciPy, Rest API, Object Oriented Programming, Machine Learning, Data Science, SQL, HTML, CSS, JavaScript

Soft: Communication, Team Player, Attention to Detail, Leadership, Critical Thinking

Language: English (Fluent), Turkish (Native)

Experience

Sobeys

Toronto, Canada

Assistant Department Manager

September 2022 – Present

- Supervise daily operations of the dairy department, including inventory management, stock replenishment, and quality control.
- Analyze sales data and inventory trends to optimize stock levels, reduce waste, and improve profitability.
- Coordinate and train staff, ensuring compliance with safety and quality standards.
- Communicate with vendors and other departments to streamline supply chain processes.

Crypttech

Istanbul, Turkiye

Python Developer

August 2021 – September 2022

- Designed and experimented with deep learning architectures, including PECNet and LSTM models, for predictive modeling tasks.
- Developed custom neural network components (activation, normalization, and optimizer functions) using Python (NumPy, SciPy).
- Built and tested mathematical algorithms to define training strategies and activation workflows.
- Collaborated in a small team with occasional expert guidance to refine solution approaches and

troubleshoot model performance.

- Conducted data preprocessing and feature engineering to improve model accuracy and training efficiency.
- Evaluated model performance with loss functions and accuracy metrics, iterating to improve predictive results.

Technologies: Python, pandas, numPy, sciPy, Tensorflow, Neural Networks

Tubitak

Istanbul, Türkiye

Researcher and Developer

June 2020 – June 2021

- Utilized REST API using Python's request model to access newspapers and extract the necessary data.
- Implemented OCR techniques to extract text from images of newspapers with Google's tesseract and created a system to save the data in various formats including image, text, and table using Python.
- Found and merged datasets including words, names, and addresses and using this dataset developed a spellchecker to correct inaccuracies in the OCR-generated text.
- Employed Masked Language Modeling with BERT, PyTorch, and Transformers to further improve the accuracy of the spellchecker.
- Integrated the spellchecker with the OCR system to generate a final, more accurate version of the extracted data.

Technologies: Python, pandas, numPy, PyTorch, Requests, Tesseract, Transformers, BERT, Data Processing

Projects

Quickly – Kitchen Inventory App (C#, .NET MAUI, SQLite, MVVM)

- Built a mobile app to manage kitchen inventory (pantry, fridge, freezer) using .NET MAUI and SQLite.
- Implemented item add/edit/delete functionality, category/location filtering, and modern UI with XAML.
- Applied MVVM architecture to ensure clean separation of concerns and maintainability.
- Integrated persistent data storage with SQLite to retain inventory across sessions.
- Conducted testing and debugging to ensure smooth performance and usability across devices.
- Gained hands-on experience in front-end and back-end integration, delivering a functional end-to-end application.

Technologies: C#, .NET MAUI, SQLite, MVVM, XAML