

## Sercan Yildiz

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### Summary

- Junior .NET Developer with experience building applications using C#, .NET MAUI, MVVM, and SQLite.
- Currently volunteering as a Web Developer at R&E Ocean Community Conservation, building new WordPress pages, improving responsiveness of existing layouts, and extending custom functionality using CMB2.
- 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

#### R&E Ocean Community Conservation

Toronto, Canada

##### Web Developer

November 2025 - Present

- Build new web pages using WordPress, ensuring clean structure, accessibility, and responsive design.
- Modernize older pages by improving responsiveness and optimizing layouts for mobile, tablet, and desktop devices.
- Customize and extend WordPress functionality using CMB2 to create and manage custom metaboxes and fields.
- Modify themes and templates, adjust CSS/HTML, and troubleshoot layout or responsive issues.
- Update site content, improve UI/UX elements, and collaborate with the team to maintain consistency across the website.

#### 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** June 2022 – 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, Turkiye  
**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