

# Yael Cohen

Software Engineer · Residence: Jerusalem

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 GitHub

Aspiring Software Engineer with quick grasp of new material, strong foundation in computer science, mathematics, and hands-on experience in machine learning. Good human relations, responsible, high commitment, prompt, high work ethic, dedication, thoroughness, and works well in team setting.

Seeking an entry-level position to apply my skills in a real-world setting and contribute to innovative AI solutions.

## WORK EXPERIENCE

Over a year of practical and intensive experience in a wide variety of Python libraries during studies.

## EDUCATION

### 2022-2024

#### SOFTWARE ENGINEERING CERTIFICATE FROM MAHAT, BEIT YAAKOV TEACHER INSTITUTE, JERUSALEM

Courses: **Data structures and Algorithms**, Algorithmic toolbox, **Machine Learning**, **Computer Vision**, Design Patterns, Java8 Spring, Hibernate and Maven , Digital systems, **Statistics**, Operating Systems, Data Communication Networks, Number Systems, Discrete Mathematics, **Linear Algebra**, Big Data, Cloud Computing , Familiar with the cyber world.

### 2018-2022

#### HIGH SCHOOL, BEIT YAAKOV TEACHER INSTITUTE OF JERUSALEM

English and math – 5 units

## PROFESSIONAL PROJECTS

- Machine & Deep Learning: K-Means clustering and KNN data analysis project using Matplotlib, Pandas, NumPy, Seaborn. Interactive image operations using NumPy, Matplotlib, Interact, ipywidgets. FNN - Fully connected Neural Network program using Tensorflow & Keras.
- C# - Design Patterns project – A system that simulates Source Control activity, similar to GIT. Features:
  - File States Management. Action History, including the capability to restore the file to any previous state.
  - Automated Notifications: Upon receiving a review request, the system automatically notifies the relevant parties authorized to approve the file.
- SQL database to manage a store with tables and relationships. Complex select, insert, update and delete queries that include conditions, sorting, grouping, string functions & more.
- MongoDB database with collections, embedded documents, references, Python queries for adding, selecting, updating or deleting a field. Aggregations which include select, sorting, grouping.
- Web API project – universities rankings around the world. Enables to receive according to several criteria. Filters unnecessary results in real time. Includes a paging mechanism.

## TOOLS AND TECHNOLOGIES

- Operating Systems: Windows, Linux
- Databases: SQL Server, MongoDB
- Programming languages: Python, C#, Java, Java8, C, C++, HTML5, CSS, JavaScript, Node.js, Express.js , React, XML, Asp.net, Web Api, RESTful API
- Python libraries: NumPy, Pandas, sklearn , Seaborn, TensorFlow, Matplotlib, OpenCV, Keras, scikit-learn
- IDE'S: Visual studio, Visual studio code, NetBeans, .Net framework, .Net Core, Jupyter-notebook, Pycharm
- Code version control: Git
- Docker, GCP, Familiarity with Agile development methodologies
- Office tools: Word, Excel, Power Point

## LANGUAGES

Hebrew – native speaker, English – near-native proficiency