KFIR INBAL

SOFTWARE ENGINEER TEL AVIV, ISRAEL 0586872449

DETAILS

Tel Aviv
Israel
0586872449
kfirinbalbio@gmail.com

LINKS

LinkedIn

Github

PERSONAL SKILLS

Fast & Thorough Learner

Experienced Team Leader

Great Team Player

Effective Autodidact

Analytical Thinker

Creative Developer

TECHNOLOGICAL STACK

Programming Languages:
Python, Java, C#, C++, C, R, Bash, React, SQL, Batch, Matlab

Machine Learning & AI:
TensorFlow, Sklearn, PyTorch

Python Libraries:
Pandas, NumPy, Seaborn, Scipy, NetworkX, Matplotlib

Data Engineering Skills:
Data transformation, Workflow automation, API development

Databases & Tools:
MongoDB, Git, Linux Shell, Docker

ADDITIONAL EMPLOYMENT HISTORY

Python Instructor at Tel-Aviv University
December 2023 — April 2024
Taught Python practice lessons to graduate students during my Master's.

Lead IT Technician at IDF
July 2015 — April 2018
Led a team of 5 technicians providing IT support for Cyber and development teams, and automating installations using Batch scripting.

PROFILE

A highly skilled software engineer with a strong foundation in programming, data engineering, and algorithm development. Proficient in Python, R, Java, C++, C# and Bash, with practical experience in developing and optimizing software pipelines, implementing machine learning models, and leading technical projects. Proven ability to deliver high-quality software solutions and automate complex processes. Seeking a challenging software development role in a dynamic high-tech company to hone my skills and grow professionally.

EMPLOYMENT HISTORY

Software Engineer - Machine Learning Tool (Self Project)
January 2025 — Present

- Built a C#, Java, and Python tool with REST API (Swagger) and MongoDB for storing experiment data, parameters, and results.
- Developed a user interface with React for parameter selection, execution tracking, and results visualisation to support data-driven decision-making.

Software Engineer - Data Processing Pipelines at Cancer Research UK, Cambridge
March 2025 — Present

Designed modular Python pipelines for processing large-scale biomedical datasets.

- Implemented scalable workflows for data transformation and clustering.
- Created reusable modules to improve efficiency and reproducibility.

Software Engineer - Data Automation at Madi Lab, Tel-Aviv University
October 2022 — January 2025

Built Python, Bash, and R pipelines for large patient data processing. (GitHub Repository)

- Built Bash pipelines for large-scale data cleaning, transformation, and processing.
- Developed Python code to store outputs in MongoDB and visualize results.

EDUCATION

M.Sc. Computational Data Science (Bioinformatics Research Track), Tel-Aviv University, Grade: 95
October 2022 — October 2024

Led extensive research focused on developing advanced algorithms and programs to analyze large-scale biological data. (GitHub Repository)

- Developed software tools in Python and R for large-scale data manipulation, integration, and statistical analysis.
- Designed and implemented algorithms based on flow network theory to map interaction networks and identify significant patterns in complex datasets.

B.Sc. Computer Science and Bioinformatics, Bar-Ilan University, Grade: 86
October 2018 — February 2022

Developed software applications and machine learning models in C++, Java, and Python, leveraging OOP and problem-solving skills. (GitHub Portfolio)

Key projects:

- **Anomaly Detection Server (C++)** - Built a server for airplane monitoring, implementing multiple design patterns.
- **Arkanoid Video Game (Java)** - Developed a classic Arkanoid game demonstrating object-oriented programming principles.
- **Bioinformatics ML (Python, ML)** - Built a Genetic Algorithm for Griddler solving, a Hopfield Network for digit restoration, and a COVID-19 Game of Life simulation.
- **Lung Cancer Classification (Python, ML)** - Developed a CNN-based deep learning model that classifies lung cancer CT scans using Torch libraries.
- **Final Year Project (Python, MATLAB Data Analysis):** Programmed a memory game in Python with eye-tracking integration and MATLAB data analysis.