

## BIOINFORMATICIAN / DATA SCIENTIST

➔ CV Online and Portfolio: <https://davidm-resume.streamlit.app/>

### Specialization & Technological Knowledge

#### Data Visualization & Statistical Analysis:

✓ **Python:**

- ➔ Numpy, Pandas.
- ➔ Plotly, Matplotlib, Seaborn, Geographical Plotting.
- ➔ Streamlit, Plotly Dash.

✓ **R.**

✓ **Machine Learning:**

- ➔ Linear and Logistic Regression.
- ➔ Decision Trees.
- ➔ SVM.
- ➔ KNN, KMeans Clustering.
- ➔ Natural Language Processing.
- ➔ Neural Nets and Deep Learning.

#### Genome Analysis:

- ✓ Sequencing Quality Control.
- ✓ Assembly, Mapping, Phylogenetic Tree.
- ✓ Pathogen detection: MLST, cg/wgMLST, Minimal Spanning Tree, Virulence/Resistance Factors.
- ✓ Rna-seq: Normalization, Count Analysis, Plotting.
- ✓ Genomes Indexing.
- ✓ Data Analysis.
- ✓ Scripts & Pipelines: Bash, Python, Biopython , R, Nextflow, Docker.
- ✓ Detect pathogens profiles better and faster.
- ✓ Improve the detection speed from hours to minutes.
- ✓ Cloud services.

#### Web:

- ✓ **Front-end:** React JS, HTML5, CSS3, JAVASCRIPT, JQuery.
- ✓ **Server:** NodeJS (Express JS), PHP.

- ✓ **Marketing:** Creation of landing pages, Lead Generation, Google Ads.

**Database:** MongoDB, Firebase, MySQL, SQL.

**Knowledge in Cyber Security:** CORS, XSS and SQL Injection Vulnerabilities, OSINT.

## Experience

**2022 - Head of Bioinformatics department at the National Headquarter of pathogens detection, *Ministry of Health, Jerusalem.***

- ✓ In charge of finding new solutions to improve pathogens detections in the country.
- ✓ Help to make the laboratory analysis better and faster.
- ✓ Create tutorials to promote the usage of scripts in the laboratory work routine by the researchers.

**2021 - Ekonovolt ltd, *digital marketing.***

- ✓ Landing page creation.
- ✓ Advertising via Google and Facebook Ads.

**2019-2021 - The Wohl Institute for Translational Medicine (Hadassah), *Imaging.***

- ✓ MRI-PET, CT-PET, Ultrasound, IVIS operator and data analysis.
- ✓ Developed the Wohl Institute Website: <http://wohl-hadassah.org>

**2019 - Qeezz ldt, *mobile and digital application development.***

**2015-2017 - Hadassah Ein Karem, *Department of Cardiac Research.***

**2013-2015 - Bar Ilan Department of Life Sciences, *Physiology of the Heart.***

## Education

- ✓ HackerU, Web and Mobile Applications Development.
- ✓ Bar-Ilan University, MSc in Biotechnology.
- ✓ Bar-Ilan University, BSc in Biotechnology.

## Additional Skills

- ✓ **Languages :** French (mother tongue), Hebrew (full command), English (good level).
- ✓ Excellent interpersonal skills, independent and team work, quick self-learning ability.