NADAV ISHAI

SOFTWARE ENGINEER

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LinkdIn | GitHub

SUMMARY

- **Graduate with honors in BSc Software Engineering**, specializing in **computer vision and deep learning**, seeking a full-time role.
- Hands-on experience in developing **machine learning and computer vision models,** with **proficiency in Python**.
- Well-versed in **software engineering methodologies,** and committed to **excellence** both independently and in **team collaboration**.

HARD SKILLS

- Python
- C
- CPP
- TensorFlow
- Keras
- OpenCV
- NumPy
- Pandas
- Scikit-Learn
- GitHub
- Linux
- Jira

SOFT SKILLS

- Strong problem-solving
- Attention to detail
- Curiosity
- Quick learner
- Leadership

PROFESSIONAL EXPERIENCE

Freelance Computer Vision & MLOps Engineer - MoreMenus | January 2024 - Present

- Contributed to the development of **computer vision** and **image processing** tasks aimed at enhancing user experiences in the hospitality sector.
- Extracted critical data points from visual inputs and **leveraged NLP models** to ensure accurate multilingual output.
- Developed and refined scalable solutions, utilizing **Python, OpenCV, the OpenAI API, Hugging Face Hub**, and other relevant technologies.

R&D Software Engineer Intern - MSH (Medical Startup) | September 2023 - November 2023

- Completed an **R&D** internship focusing on **object detection,** using **Python, C++, CUDA**, and **Nvidia Holoscan** within the **tool tracking team**.
- Contributed to the development of **computer vision machine learning models**, enhancing medical imaging technology.
- **Secured a professional recommendation from the CEO**, available upon request for potential hiring managers.

EDUCATION

- **Bachelor's in Software Engineering** from SCE college, with a **GPA of 91** (2019-2023)
- Two times **Dean's List honors** for academic excellence. (2020-2021, 2022-2023)
- **Tutor** software engineering core courses for SCE college. (2020)

PROJECTS (The blue project names are hyperlinked to their GitHub repositories, allowing direct access to the code and project details)

- **Final Project** - **SkinDiseaseAI**: I designed, developed, and led the **full pipeline** of a Python-based **AI and computer vision system** aimed at accurate skin disease diagnosis. I leveraged **CNN models**, **classification algorithms,** and **deep learning** techniques as key tools. This substantial project earned a nomination for the **Outstanding Project Award** in the Software Engineering Department.
- **Python - EDA and ML models creation** using Crisp methodology (Written in **Jupyter Notebook**). Background changer - an algorithm using **image processing techniques** to change the background of an object in images (**OpenCV**). Developed a **KNN algorithm**-based classifier to accurately classify handwritten Hebrew letters. Built an **SVM**-based gender classifier using **LBP feature extraction** for handwriting images.
- **C -** Created a **compiler** for a new programming language similar to C (using Lex & Yacc). Developed a Linux shell.

SELF-LEARNING PROJECTS

- Developed two **computer vision-based object detection** systems using **Python**: the first system identifies and locates glasses in my home upon request (written in **PyCharm**), and the **second system** triggers alerts when my dog climbs onto the couch (written in **Google Colab Pro+**).
- Created various programs including **face detection and recognition**, among others.

ADDITIONAL ACHIEVEMENTS

- Presented my final project at the **MLE - 2nd IEEE Conference on Machine Learning in Engineering.**
- Accepted to present my final project at **VCIP 2023** - IEEE International Conference on Visual Communications and Image Processing in Korea.

MILITARY SERVICE

- **Fighter** in Combat Intelligence unit. **Commanded up to 30 soldiers** in combat service. (2014-2017)

VOLUNTEER WORK

- Tutored students facing difficulties in software engineering courses for Perach. (2020)

LANGUAGES

- Hebrew - native.
- English - fluent.