




IDO SHENBACH

SOFTWARE DEVELOPER

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ABOUT ME

Software developer with a B.Sc. in Computer Science. Proficient in developing, optimizing, and fine-tuning machine learning models across deep learning, NLP, reinforcement learning, and computer vision domains. Experienced in designing efficient software solutions and developing projects involving system programming, networking, and multi-threading.

SKILLS

- **Programming Languages:** Java, Python, C#, C.
- **Platforms & Frameworks:** Linux, .NET, Git.
- **Software Development:** OOP, **functional** programming, and **system** programming.
- **Networking & Servers:** Server development, socket programming, and multi-threaded request handling.
- **Machine Learning:** PyTorch, Hugging Face, Scikit-learn.
- **Data Processing & Analytics:** Pandas, NumPy, Matplotlib.

EDUCATION

B.SC. COMPUTER SCIENCE International school at Reichman University **GPA – 87.41** **2021 - 2024**

Relevant Electives:

- Machine Learning from Data
- Deep Learning and Image Understanding
- Image Processing and Analysis
- Natural Language Processing
- Reinforcement Learning
- Statistics and Data Analysis

PROJECTS

- **SynthesizerApp:** Built a live synthesizer application in **Java**, applying **Digital Signal Processing** techniques.
- **HTTP-Server:** Developed a lightweight HTTP **server** from scratch, showcasing strong networking and server-side development skills.
- **Image Captioning Model:** Created an image captioning system using **ResNet152** and **LSTM**, integrating visual and sequential modeling.
- **Natural Language Processing:** Developed and **fine-tuned** a Sentence-BERT model in Hebrew, enhancing **semantic similarity** through **contrastive learning**.
- **Reinforcement Learning Agent:** Built a Double Deep Q-Network (**DDQN**) agent for the Sokoban game, using **Hugging Face**'s environment for strategic optimization.

WORK EXPERIENCE

WEAPONS DEVELOPER Air Force **2016 - 2019**

- **Designed, tested, and maintained** advanced military weapons systems as part of a collaborative team.
 - **Researched and developed** new weapons technologies while enhancing existing systems to support soldier effectiveness.
 - Oversaw purchases from understanding unit needs and securing **budgets** to production, handling **large financial investments**.
 - **Led the development** of a **drone defense system**, collaborating with Hikvision to create a "drone gun" that disrupts drone connections with operators.
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