Idan.arbiv@gmail.com 💟





Idan Arbiv

Deep Learning Researcher and hands-on Software Engineer.

Education

M.Sc. Computer Science/Ben Gurion University/GPA - 97

Estimated graduation year – 2026.

Deep Learning Researcher under the guidance of Dr. Omri Azencot, I focus on Deep Learning in the areas of Sequential Modeling, Unsupervised Learning, and Representation Learning.

Publications

- N. Berman*, I. Naiman*, I. Arbiv *, G. Fadlon *, and O. Azencot. Sequential Disentanglement by Extracting Static Information From A Single Sequence Element. International Conference on Machine Learning (ICML), 2024
- N. Berman*, I. Naiman*, I. Arbiv *, G. Fadlon *, Itai Pemper *, and O. Azencot. Utilizing Image Transforms and Diffusion Models for Generative Modeling of Short and Long Time Series. Neural Information Processing Systems (NeurIPS), 2024

B.Sc. Computer Science/Ben Gurion University / GPA - 93 (Summa Cum Laude, Dean's List)

Experience

AUG 23 -PRESENT

Algorithm Engineer (Student) – CTO Group/ SONY Semiconductor

- Developed Web LLM-based applications using RAG architecture using Chroma, LangChain, and Streamlit. overseeing the entire process from design and architecture to development, testing, CI/CD using TeamCity, and deployment.
- Created a web-based internal search engine using the ELK Stack (Elastic Search, Kibana) and web scraping methods, managing all stages from initial design to production using Jira, Git, Bitbucket.
- Built a Python package for interactive plot visualization based on the Matplotlib package, enhancing data analysis capabilities.
- Developed a Python-based desktop application for chip power consumption analysis using Tkinter and Pandas.
- Improved the algorithmic 5G simulation code architecture, facilitating the development of new algorithms for chip design and ensuring robust CI/CD processes and production deployment.

OCT 23 -PRESENT

Teaching Assistant/ Ben Gurion University

- CS 202.1.2051 Principles Of Programming Languages (Spring 2024)
- CS 202.1.5391 Distributed Systems Programming (Winter 2024)

MAY 22 -AUG 23

Software Engineer (Student)/ SONY Semiconductor

- Developed testable, scalable, and maintainable code for new and existing software for cellular IoT applications, utilizing OOP, **SOLID principles**, and **design patterns** in **desktop applications** using **Java**.
- Developed new software functionalities using Java and Spring Boot framework on the server side, as well as databases management, leveraging my understanding of various algorithms.
- Worked on the client-side using React and Redux, creating dynamic and responsive UI components that enhanced user experience while employing analytical tools for optimal results.

NOV 15 - AUG 20

Communications (C4I) Officer - Captain / IDF

Responsible for all communication and technology systems in a variety of combat and special units. Command of over 40 soldiers, 15 officers, 5 noncommissioned officers, demonstrating strong leadership while leading the units to success in a variety of operational missions in different arenas, including special missions abroad. Received excellence certificate for performance.