Omri Shimoni

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Summary

As a recent graduate of Computer Science & Entrepreneurship (BSc & BA), I am eager to embark on my next academic journey. Starting in October, I will be pursuing my MSc in Machine Learning & Data Science, where I will further deepen my knowledge and skills in this field. I am particularly fascinated by ML modeling, Computer Vision, Prediction Algorithms, Finance, and Automation. With a strong drive for continuous learning, a diligent work ethic, and a knack for problem-solving, I am committed to making a meaningful impact in these domains.

Experience

Data Science Lab of Arison Business School, Reichman University | Herzliya, Israel
Research Assistant | 09/2022 - Present
- Conduct diverse research using a wide range of datasets, encompassing images, texts, and various data types.
- Utilize computer vision techniques and Python skills, along with libraries like CV2, NumPy, Pandas, TensorFlow, and Keras, to process and analyze data effectively.
- Develop and implement classification and prediction algorithms, including Convolutional Neural Networks (CNNs), transformers, and transfer learning from established image classification models, with a goal of reaching optimal metrics and performance benchmarks.
- Generate impactful visualizations and conduct thorough data analysis to extract valuable insights and answer research questions efficiently.

Vimmo | Herzliya, Israel
Junior Product Manager | 12/2022 - 07/2023
- Manage and nurture relationships with diverse stakeholders and customers in Israel, Europe, and the US, ensuring their satisfaction and fostering long-term partnerships.
- Design and develop market-driven products by conducting thorough market research, incorporating customer feedback, and analyzing competitive landscapes.
- Develop and implement seamless integrations of products into customers' existing systems, utilizing frontend development skills, API integration, etc.
- Lead process automation initiatives to enhance operational efficiency and streamline workflows.
- Implement chatbots using OpenAI's API to improve customer experience.

Reichman University | Herzliya, Israel
Teaching Assistant (TA) | 10/2021 - 04/2022
- Worked as a Mathematics (Fundamental Calculus) Teaching Assistant (TA) for Business Administration, Entrepreneurship, and Economics students.

Israel Defense Forces
Application Developer | 12/2017 - 11/2018
- Played a pivotal role as a key member of a team that successfully developed award-winning applications for Israel's largest military base, including the Chief of Staff award.
- Utilized frontend technologies to create innovative solutions, integrated navigation functionalities (such as Waze) into the main base application.
- Served as a liaison to high-tech companies and defense contractors, facilitating effective communication and collaboration for the project's success.

Israel Defense Forces - Navy
Basic Combat Training Commander | 03/2016 - 09/2017

Education

Reichman University | Herzliya
Machine learning & Data Science (MSc) | 10/2025

Reichman University | Herzliya, Israel
Computer Science and Entrepreneurship (BSc & BA dual degree) | 07/2023

- Demonstrated proficiency in Machine Learning by rewriting multiple ML models from the Scikit-learn library using Python in different CS courses.
- Collaborated with PreSee to enhance the performance of their ML models by analyzing data, providing valuable insights that contributed to improved results and outcomes.
- Successfully resolved synchronization challenges in C and Java as part of a CS course in Operating Systems, showcasing problem-solving abilities and understanding of concurrent programming principles.
- Implemented various streaming algorithms to solve diverse problems, showcasing understanding of algorithmic design and implementation principles.
- Applied entrepreneurial skills in various courses, participating in the ideation and development of new products. Developed user journeys, created personas, and presented comprehensive solutions, demonstrating an understanding of user-centric design and business considerations.

Harel High School | Mevaseret Zion, Israel
Mathematics and Computer Science | 05/2015
- Developed C# Windows form applications as final projects in Computer Science classes, including a 3D graphing calculator and a user vs. machine Tic-Tac-Toe game with basic AI capabilities.

Skills

Python, Machine Learning, C, C#, Java, Algorithms, Unity, Data Structures, Digital Architectures, Data Analysis, Product Management, Research & Development

Certificates

Coursera: Financial Markets (Yale) (April 2020), Boston University: summer program in Business & CS (2014), HarvardX CS50: Introduction to Computer Science (May 2020)

Awards

Deputy Chief of Staff for Personnel Award (Application), IDF Chief of Staff Award for Accessibility (Application)

LinkedIn & Github

https://www.linkedin.com/in/omri-shimoni/