Jacob Reiss
Software Engineer

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Website Portfolio

Education

Worcester Polytechnic Institute / B.S. Computer Science
AUGUST 2020 - EXP. MAY 2024

Studied machine learning and artificial intelligence, databases, and software engineering. Learned how to professionally prototype and undergo project iteration. Gained leadership and real-world software engineering experience.

Project History

Inter-Qualifying Project (IQP)/ Machine Learning Specialist
JANUARY 2023 - MARCH 2023, EILAT ISRAEL

Designed and implemented a convolutional neural network with >91% accuracy to detect and classify jackals and foxes in the Arava Valley for the Arava-Dead Sea Science Center in Kibbutz Yotvata.

Machine Learning/ Model Designer
MARCH 2023- MAY 2023, WORCESTER POLYTECHNIC INSTITUTE

Implemented Random Forest, SVMs, CNNs, NNs, and Linear Regression algorithms from scratch for a variety of image recognition and classification tasks, and became familiar with feature engineering.

Software Engineering/ Frontend Developer
JANUARY 2022 - MARCH 2022, WORCESTER POLYTECHNIC INSTITUTE

Designed user interfaces in JavaFX for Brigham and Women's Hospital, assisted with database design, and presented the final product to sponsors.

Database Systems/ Designer
OCTOBER 2022 - DECEMBER 2022, WORCESTER POLYTECHNIC INSTITUTE

Designed a database for a hospital application, utilizing UMLs, ER Diagrams, and Oracle SQL.

Computer Skills

Industries
Machine Learning, Artificial Intelligence, Algorithms, Database Design & Management, Human-Computer Interaction, Programming Languages

Programming Languages (and Pseudo Languages)
Java, C, C++, Python3, Rust, Spreadsheets, HTML, JavaFX, Oracle SQL, CMD

Tools, Libraries, and Practices
Linux, Windows, SceneBuilder, Tensorflow, Numpy, Scikit-Learn, Test Driven Development, Object Oriented Development, AGILE, Scrum