

# Jacob Reiss

## Machine Learning Engineer

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**GitHub Username: HoneyJar-0**

501 Plantation Street, Apartment 511  
Worcester, MA 01605

(774)-262-2784

[jacobreiss1@gmail.com](mailto:jacobreiss1@gmail.com)

[www.linkedin.com/in/jacob-reiss](http://www.linkedin.com/in/jacob-reiss)



Website Portfolio

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## Education

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**Worcester Polytechnic Institute / B.S. Computer Science**

AUGUST 2020 - 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.

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## Project History

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**Reducing large mammal damage to field crops in the Arava valley - by non-lethal means/ 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.

**Designing an Interactive Interface for FACET: Personalized Explanations in XAI/ Project Manager**

AUGUST 2023 - MARCH 2024, WORCESTER POLYTECHNIC INSTITUTE

Managed a team of engineers to develop a frontend and backend that can communicate with an explainable ML model across different programming languages and operating systems. Developed user friendly interfaces in JS. Handled interpersonal conflicts on the team effectively and quickly.

**Software Engineering (course)/ 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.

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## Computer Skills

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### Industries

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

### Programming/Pseudo-Programming Languages

Java, C, C++, Python, Rust, Spreadsheets, HTML, JavaFX, Oracle SQL, JS, CMD

### Tools, Libraries, and Practices

Linux, Windows, SceneBuilder, Tensorflow, PyTorch, Numpy, Scikit-Learn, Test Driven Development, Object Oriented Development, AGILE, Scrum