Itay Akad

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EDUCATION

Rutgers University - New Brunswick   New Brunswick, NJ
School of Arts and Sciences   Expected Graduation, May 2026
Bachelor of Science, Double Major: Computer Science and Data Science   **GPA:** 3.72/4.00
Minor: Economics

- **Relevant Coursework:** Data Structures & Algorithms, Discrete Mathematics, Data 101, Linear Algebra, Computer Algorithms, Data Management, Calculus, Statistics, Macroeconomics, Microeconomics
- **Awards/Honors:** Dean's List (Fall 2022, Spring 2023, Fall 2023, Spring 2024)

SKILLS

- **Programming:** Java, Python, R, C, C++, HTML/CSS, JavaScript, SQL
- **Software:** Visual Studio, VS Code, Microsoft Excel, MySQL, Tableau, Power BI**,** Unreal Engine Blueprints, Git, Flask, React, Django, TensorBoard
- **Languages:** English (Fluent), Hebrew (Fluent)

EXPERIENCE

V-Armed   **Brooklyn, NY**
Development Intern   *Summer 2024*

- Collaborated with a team of developers at the Brooklyn studio to design and enhance **3+** combat-simulation virtual reality projects, leveraging both **C++** and **Unreal Engine Blueprints**.
- Developed and debugged **1,000+** lines of code and Blueprints scripts, reducing runtime errors by **30%** and enhancing system stability during VR simulations
- Assisted in **50+** user testing sessions, incorporating feedback to refine and improve the overall user experience by **20%** while maintaining and calibrating VR equipment for high performance and reliability.

Summer Intern   *Summer 2023*

- Calibrated and maintained **100+** pieces of VR equipment (headsets, sensors, cameras) for high-profile clients like the NYPD, ensuring **25%** reduced downtime and optimal performance during **10+** training sessions.
- Supported administrative tasks, maintained the large studio space, and assisted with special projects, gaining familiarity with company operations and contributing to a **15%** increase in operational efficiency.

PROJECTS

[RL Stock Trader](#) | OpenAI Gymnasium, YFinance, TensorFlow, MatPlotLib, NumPy

- Built a stock trading simulation in Python that processes over **500** episodes of AAPL stock data to train a **Deep Q-Network (DQN) agent**, achieving a **10%** increase in total profit across simulated trading scenarios.
- Designed a custom 3-action reinforcement learning environment, optimizing an AI agent with **2,000+** samples and 32-batch training, increasing rewards by **25%**.

[Fantasy Football Analysis](#) | Jupyter Notebooks, Python, SQL, Tableau

- Built a data pipeline using **SQL** and **Python** to clean, merge, and analyze **100,000+** fantasy football player data points, identifying key performance indicators and visualizing insights on **Tableau**, leading to a **20%** improvement in prediction accuracy for player performance.
- Developed a Linear Regression model using **pandas**, **numpy**, and **scikit-learn** to predict top fantasy football players, achieving a **30% increase** in prediction accuracy based on key statistical metrics from **100,000+** player data points.

[Personal Portfolio Website](#) | HTML/CSS, JavaScript

- Utilized **HTML/CSS** and **JavaScript** to create a visually appealing and user-friendly site showcasing academic background, skills, portfolio, and professional experience. Hosted on **GitHub Pages**.