

Robert Vazquez

Aspiring Machine Learning Engineer | Computer Science Student, UofSC (2027)

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Driven Computer Science student at University of South Carolina (Class of 2027) with experience in machine learning research. Skilled in Python, Pytorch, and data science libraries (NumPy, Pandas, and Scikit-learn). Seeking opportunities to apply ML and model development in real-world projects.

Education

University of South Carolina – Columbia, SC

B.S. in Computer Science, Expected May 2027

Midlands Technical College – Columbia, SC

A.S. in Computer Science, Aug 2023 – May 2025

Research Experience

Undergraduate Research Assistant – DeepCubeA Research Group, University of South Carolina

Sept 2025 – Present

Advisor: Prof. Francesco Agostinelli

- Applying **DeepCubeA**, a deep reinforcement learning model that estimates heuristic values for A* weighted search.
 - **Frame diverse problems as pathfinding tasks** to leverage heuristic solutions with DeepCubeA.
 - Assisting a master's student in applying DeepCubeA for **quantum circuit synthesis**.
 - Utilizing **PyTorch** for model development and experimentation.
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Technical Skills

Programming: Python, SQL, C++ (Qt)

ML & Data: PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib

Tools: Git, Linux, Jupyter Notebook