

Santiago Perez Lugo

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EDUCATION

University of Virginia

May 2026

Bachelor of Science in Computer Science | Minor in General Business

GPA: 3.84

Relevant Courses: Software Development, Data Structures and Algorithms, Machine Learning, Artificial Intelligence, Computer Systems Organization, Discrete Mathematics, Computer Vision

EXPERIENCE

Incoming Software Engineer Intern | Baltimore, MD

May 2025 - August 2025

T. Rowe Price

Undergraduate Tutor | Charlottesville, VA

September 2022 – Present

America Reads

- Cooperate with teachers in designing interactive activities and demonstrations
- Tailor english and math lesson plans based on students' individual needs, focusing on strengthening core concepts and enhancing problem-solving skills in preparation for Standard of Learning (SOL) tests
- Monitor students' progress over the course of nine months, adjusting teaching methods to ensure optimal learning outcomes

Probability Teaching Assistant | Charlottesville, VA

August 2023 – December 2024

UVA Applied Mathematics Department

- Engaged with 50 students in a math class answering questions and explaining complex probability concepts
- Hosted office hours and managed over 150 grading tasks weekly

PROJECTS

RecipePal | Django, PostgreSQL, Amazon S3, Heroku

- Developed a full-stack recipe management app with Django, allowing users to create, view, and manage recipes
- Implemented Google Login for secure authentication
- Utilized PostgreSQL for relational data storage and Amazon S3 for scalable cloud storage, handling user profiles, recipe metadata, and image uploads

Ti-Hoops | PyTorch, MySQL, Node.js, Express, Amazon RDS

- Engineered a full-stack web application API using Node.js and Express for custom NBA game simulations
- Achieved a 66% accuracy rate in predicting the outcomes of 50,000 NBA games across 47 years of data using a PyTorch-based neural network
- Defined predictive accuracy to within 93% of actual points scored by integrating a multi-layer neural network with batch normalization, dropout layers for regularization, and optimization algorithms like Adam
- Ensured streamlined access to data stored in Amazon RDS via GET requests and deployed on Heroku

Vista | PyTorch, MongoDB, React, Flask

- Developed a PyTorch-based recommendation model achieving an accuracy of 85% in predicting user preferences across a dataset of over 30,000 TV shows
- Utilized MongoDB for efficient storage and management of user profiles, TV show/movie metadata, and recommendation history
- Implemented a RESTful API using Flask to handle user requests, interact with the MongoDB database, and serve machine learning model predictions to the React front-end

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (MySQL, PostgreSQL), JavaScript, HTML/CSS

Frameworks: AWS, PyTorch, React, Flask, Express, Node.js, Django, Linux (Ubuntu), Git

Dialect: English (Native), Spanish (Native)