

# Marianella Salinas

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## EDUCATION

**Cornell University, New York, NY**

*Expected May 2025*

*Master of Engineering in Computer Science (Merit Scholar)*

**Relevant Coursework:** Machine Learning Engineering, Natural Language Processing, Designing Data Products

**University of Connecticut, Storrs, CT**

*May 2024*

*Bachelor of Science in Computer Science (Honors Scholar), Minors in Math and Entrepreneurship | GPA 3.6*

## TECHNICAL SKILLS

Python (SciKit-Learn, Pytorch), SQL, CI/CD, AWS Cloud, Docker, PowerBI, Excel, Unity, C#, C, React.JS, SDLC, Figma

## WORK EXPERIENCE

**Connecticut Innovations (CI), New Haven, CT**

*June 2024 - August 2024*

*Venture Capital Summer AI Associate, Technology Fund*

- Engaged with 120+ startup CEOs and CTOs in investor meetings across FinTech, ClimateTech, and Bioscience, and presented 5 investment memos for approval to senior leadership aligned with CI's long-term strategic goals.
- Evaluated AI-driven solutions in consumer-facing products, B2B Enterprise AI, and Data Management by assessing product roadmaps, evaluating market segments, modeling valuation in company financials, and drafting term sheets.
- Led due diligence for a \$500k investment in Sigma360, an AI-driven AML and KYC compliance platform for financial institutions, by engaging with customers and investors and conducting technical diligence on the platform's data infrastructure and Generative AI product.

**Royal Bank of Canada Capital Markets, New York, NY, 2-Year Leadership Program**

*June 2023 - August 2023*

*Quantitative Research and Development: Software Engineer Intern*

- Led the development of an AI chatbot using Python, RASA, and Docker to address internal customer challenges within RBC's AI/ML data visualization tools for quantitative traders, providing on-site documentation and eliminating the need to switch between tools.
- Conducted 30+ user interviews to identify pain points in accessing visualization documentation, training the chatbot on frequently asked questions and user queries to improve user workflow and enhance operational efficiency.
- Designed an automated data hydration request system with REST API, React.JS, and GitHub tickets, enabling traders to access trading data more effectively, saving the DevOps team 15+ hours a week.

*Quantitative Trading and Execution: Software Engineer Intern*

*June 2022 - August 2022*

- Pre-processed 50k daily trade executions using Python and SQL, generating weekly reports on municipal bond attributes and trends presented to underwriters and bankers for informed trading strategies.
- Built entity relationship models and PowerBI visuals from IPREO and Bloomberg databases, mapping relationships based on features like Credit Rating, Yield, and CUSIP. Presented these insights to higher-level management for a comprehensive view of RBC's US bond dynamics, to support decision-making on market positioning.

## LEADERSHIP EXPERIENCE

**Hillside Ventures, University of Connecticut, Storrs, CT**

*August 2023 - May 2024*

*Managing Director, Sustainability Fund*

- Managed a \$1M fund and led a team of 8 analysts through an iterative investment process, sourcing 150+ startups, defining investment criteria, and pitching business models and products for potential investments weekly.
- Led a \$25k investment in AmpUp, an EV management SaaS platform, by analyzing IP strategy through a review of 15+ patents and conducting market research to evaluate the company's competitive advantage.

**UConn Engineering: Investigating Factors Affecting First-Year Success for URM Students**

*November 2022 - May 2024*

*Principal Investigator*

- Conducted a mixed-methods, IRB-approved research study examining retention barriers in STEM courses through in-depth interviews and surveys with 40+ Black, Latinx, and Native American students in UConn's School of Engineering. Presented findings at academic conferences, highlighting course improvements that enhance equity and inclusion in engineering education.

## PROJECTS

**Honors Thesis: Enhancing Stock Price Prediction Using AI/ML and Macroeconomic Indicators (Python)** *April 2024*

- Developed machine learning models using Support Vector Regression (SVR) to predict stock prices by integrating GDP and CPI, achieving a 15% improvement in model performance for the consumer staples sector.

**Engineering Capstone: Virtual Reality Training Simulation (Unity, C#, Oculus, Blender)** *September 2023 - April 2024*

- Scrum Master for a team of 5 engineers to develop a zero-to-one gamified VR training platform for the TRUMPF TruLaser 2030 machine to simulate critical laser maintenance tasks; Completed pilots with 12 service engineers.