### Lukas Rueda

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Technology Analyst with over four years of experience designing, overseeing the implementation, and enhancing secure and efficient customer IT products and services. My background includes a STEM designated Master's degree in Economics, with a thesis evaluating sophisticated econometric models in Python to forecast the implied volatility of Bitcoin. I excel at collaborating with business managers and IT professionals to understand business requirements, and I am adept at analyzing data to identify opportunities for improvement and suggest suitable IT solutions.



### Education

**Master of Arts, Economics** | Hunter College, New York, NY | Expected Fall 2025

**Data Science Bootcamp** | Brainstation, New York, NY | 2019

### Bachelor of Science, Mathematics | Skidmore College, Saratoga Springs, NY | 2018



### Professional Experience

**Economics Tutor** | *Hunter College* | New York, NY | Aug 2024 – May 2025

* Tutored undergraduate students in complex econometric and statistical concepts, improving their analytical reasoning and problem-solving skills in quantitative economics.

**Trader & Financial Analyst** | *Principles of Sovereignty LLC* | Brooklyn, NY | Jan 2021 – Aug 2024

* Performed rigorous analysis of on-chain data and protocol infrastructure to inform discretionary investment theses for Bitcoin options and broad market index futures.
* Actively managed a portfolio of complex financial derivatives, gaining hands-on experience in portfolio construction and risk management.

**Product Manager** | *OpenSponsorship* | New York, NY | Jul 2020 – Dec 2020

* Led a product area, collaborating with a cross-functional team to define a product vision and roadmap. Drove progress against goals and milestones and resolved challenges and blockers.
* Led a data-driven analysis and redesign of a core user funnel, resulting in a 40% improvement in customer onboarding.
* Conducted user research and market analysis to inform product decisions and influence the wider product organization.

**Junior Product Manager** | *ObsessVR* | New York, NY | Jan 2020 – Jul 2020

* Championed and drove the development of a critical internal GUI, translating a complex, high-stakes operational workflow into an elegant product solution that enhanced efficiency by 75%.
* Wrote detailed and technical PRDs to guide the engineering team through the product development lifecycle from conception to launch.

**Technical Project Manager** | *GUESST* | New York, NY | Nov 2018 – Jan 2020

* Spearheaded a complete UI/UX overhaul of the platform’s core service, collaborating with cross-functional teams to replace a clunky, manual process with an intuitive interface that significantly improved user satisfaction.



### Projects

**Predictive Modeling of Bitcoin (Master’s Thesis)** | In Progress

* Developing and evaluating sophisticated econometric models (e.g., GARCH, LSTMs) in Python to forecast the implied volatility of Bitcoin.
* Integrates Bitcoin-specific alternative data, including on-chain metrics and market structure, to enhance predictive accuracy beyond traditional financial data.

**LLM Inference Server**

* Built out a multi-GPU LLM inference server for local LLM inferencing using AMD GPUs and tensor parallelization with llama.cpp.

**Data Modeling & Performance Analysis Engine** | GitHub: [github.com/lrud/futures\_vpoc\_backtest]

* Architected a vectorized backtesting engine in Python to simulate and quantitatively validate investment strategies against historical time-series data.
* Engineered the system for high-performance computing, implementing tensor parallelization to optimize distributed model training across an AMD GPU cluster.
* Provided a robust framework for rigorous backtesting, enabling the data-driven analysis of model performance and systematic risk management rules.

### Skills

* **Product & Service Management:** IT Product & Service Design, Process Analysis, Requirements Definition, Quality Assurance (QA), Technical Writing, User Training
* **Project & Team Collaboration:** Project Management, Stakeholder Collaboration, Cross-functional Leadership, Communication, Problem-Solving
* **Data & Analytics:** Data Analysis, Data Interpretation, Data Mining, BI Tools (e.g., Excel), Python, Econometrics