Vitali Giggy

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EXPERIENCE

Software Consultant · ACME Distribution *Jun – Aug 2024*
Aurora, CO, United States

- Identified a critical performance flaw in the company's employee movement logging system.
- Developed and deployed an optimized fix, rolling it out across multiple warehouse locations.

PROJECTS

Music Equities · Can public attention forecast company revenue? *2026*

- Tested whether Wikipedia pageviews forecast music companies' quarterly revenue weeks before it is reported, with pass/fail criteria set before testing, a sealed hold-out set, and null and placebo tests.
- Reported the honest result: no edge beyond last quarter's growth (shuffled-label null p = 0.68).

ERCOT Power-Price Research · with Travis Giggy *2026*

- Studied whether day-ahead vs. real-time electricity price spreads in Texas can be predicted from public forecast errors, across 110,208 hourly observations at four trading hubs.
- Found a strong explanatory link (Spearman ρ −0.31 to −0.48) but no predictive edge; every result gated by an anti-lookahead audit.

Market Simulation · Are chart patterns real? *2026*

- Built an order-book market of random traders in Python and showed that support and resistance patterns still emerge, because resting limit orders give the book a memory.

Quantitative Strategy Testing · Sector timing, volatility, technical signals *2026*

- Walk-forward backtests of sector-timing rules against buy-and-hold and random-timing controls; realised-volatility forecasting models against naive baselines; RSI and golden-cross experiments with separate train and test periods. Results published as interactive dashboards.

LEADERSHIP & ACTIVITIES

International Student Community, IE University · Co-Founder & Head *2024 – Present*

- Founded and lead a student community that has grown to over 1,000 members, making it one of the largest student-run organizations at IE University.
- Designed programming to ease the transition for international students relocating to Spain, including orientation resources and peer support networks.
- Organize regular social events to foster cross-cultural connections and a shared sense of belonging among students from diverse backgrounds.

Model United Nations · Delegate *2024*

- Represented a member state at a Model UN conference in New York City, developing skills in diplomacy, research, and public speaking.

EDUCATION

B.Sc. Data and Business Analytics *2024 – Present*
IE University — Madrid, Spain
Second-year student; relevant coursework in data science, analytics, statistics, time series analysis, and business.

High School Diploma *Graduated 2025*
Secondary School — Puerto Vallarta, Mexico

SKILLS

Programming & Tools: Python (pandas, NumPy, Matplotlib), R, C#, Tableau, Git
Methods: Backtesting, walk-forward validation, hypothesis testing, forecasting, data visualization
Languages: English (fluent), Spanish (native)
Other: International background (Mexico, Spain, United States); lifelong interest in technology and computing