**Rohit Vijay Mangtani**

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## EDUCATION

**Bentley University** Waltham, MA

*Master of Business Administration in Business Analytics May 2024*

*Bachelor of Science in Computer Information Systems, Minor in Finance May 2023*

**Relevant Coursework:** Finance and Economics | Quantitative and Statistical Analysis | Data Management | Operations

## WORK EXPERIENCE

**Royal Bank of Canada (RBC)** Jersey City, NJ

*Fixed Income Operations Analyst June 2024 – Present*

- Execute daily cross-system reconciliations across multiple fixed income entities, validating transaction-level data between internal platforms and external counterparties to ensure position accuracy and control integrity

- Isolate and diagnose funding discrepancies by extracting account-level transaction data and performing root-cause analysis across settlement, cash, and journal records to resolve breaks before downstream impact

- Identified structural inefficiencies in daily reconciliation workflows; redesigned Excel-based templating processes to reduce redundant manual steps and improve data consistency across reporting cycles

- Monitor trial balance variances across independent source systems, flagging anomalies that indicate upstream data quality degradation or potential control failures

- Evaluate reconciliation processes for automation potential by categorizing workflows as rules-based vs. judgment-dependent, scoping systematic reduction of manual overhead

**Fidelity Investments** Boston, MA

*Technology Risk Analyst Intern June 2022 – August 2022 | June 2023 – August 2023*

- Enhanced data integrity across 3 platforms; uncovered 100+ inconsistencies in audit-related documents

- Created a PowerBI dashboard enabling business units to filter and view specific controls related to their applications

- Improved internal audit processes by tracking findings, documenting control inconsistencies, and presenting solutions to business unit leads and the audit committee

- Gained in-depth knowledge in service organization controls (SOC) reporting and IT general control assessments

- Placed first in paper trading competition for interns

**Carbix Corporation** Quincy, MA

*Finance Intern June 2020 – September 2020*

- Supported Carbix's growth by creating financial models, including competitive analysis, cost models, and LOIs

- Facilitated discussions with 10+ clients to identify partnerships and tax advantages to reduce expenditures
- Implemented strategy to increase brand awareness for venture capitalists

**Allegro Microsystems** Manchester, NH

*Corporate Finance Intern December 2019 – January 2020*

- Formulated a system to import updated foreign exchange rates from a trusted source into proprietary reports
- Monitored reports and identified cost-saving opportunities at Allegro manufacturing facilities worldwide
- Analyzed competitors' forecasted expenses and financial statements to highlight opportunities for improvement

## PROJECTS

**RMGTNI — Financial Intelligence & Research Platform**

- Built a full-stack market research platform (Next.js, TypeScript, Python) with 79 internal modules spanning signal detection, regime classification, event-driven analysis, and automated backtesting
- Engineered a real-time signal pipeline integrating yfinance, FRED, Finnhub, and Polygon data with event detectors for Fed decisions, earnings, VIX regime shifts, yield curve inversions, and commodity moves
- Designed and implemented a scenario-first trading intelligence architecture with regime-conditional scoring, signal decay tracking, out-of-sample validation, and honest-mode invalidation triggers
- Published 12+ quantitative research articles including multi-asset correlation analysis (364 days of price data), market persistence studies (736 days, $130B volume), and macro liquidity signal dashboards

**Medicaid Provider Fraud Detection**

- Built a two-phase anomaly detection system identifying statistical outliers in Medicaid provider spending patterns across billing categories and geographic regions
- Applied cross-validation techniques in Phase 2 to reduce false positive rates and isolate high-confidence fraud indicators from legitimate variance

## LEADERSHIP EXPERIENCE

**Bentley Streetwear Society** Waltham, MA

*Co-Founder & Co-President September 2021 – May 2023*

- Directed and supervised overall operations, including educational content and member engagement
- Organized monthly marketplace events with participation from 10+ vendors and 300+ students

## SKILLS & INTERESTS

**Skills:** Financial Modeling, Analytical Skills, Agile Methodologies, Strategic Thinking, Communication, Collaboration

**Applications:** Microsoft Word, Microsoft Excel, Microsoft PowerPoint, JIRA, Confluence, PowerBI, Tableau, Alteryx, Snowflake, PyCharm, Eclipse, Rstudio, MySQL, SAP, ServiceNOW, Bloomberg, Morningstar

**Computer Languages:** Python, R, SQL, HTML, CSS

**Interests:** Thematic Investing, Collecting Novelty Shoes, Music Production, Taekwondo (Black Belt II)