SYDNEY MURPHY

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PROFESSIONAL EXPERIENCE

MURPHY VENTURES   Remote, AZ
Investment Analyst   8/23 – Present
- Managed equities and real estate portfolio for Murphy Ventures, a prominent Arizona-based family office.
- Equity Research: Used stat arb, sentiment analysis, and event driven strategies to generate alpha. Responsible for formulating, testing, implementing, executing, and managing systematic trading strategies. Current research includes bottom-up industry specific signals and long short equities focused on TMT, global internet, and consumer.
- Real Estate Investment Management: Actively engaged in the strategic oversight of the real estate portfolio, exploring value-add opportunities and alternative investments such as water, farmland, and data centers.

HEALTHDAY   New York, NY
Product Manager, Healthcare-Based Publication Company   7/22 – 8/23
- Customer-Focused Design: Directed high-profile website redesign, overhauling UX design elements and implementing advanced web technologies HTML and CSS design to raise site's UX score by 40%
- Data-driven SEO and Web Analytics: Pioneered product launch SEO strategy, qualitative market research: user behavior analysis, A/B testing, quantitative research for market reports using Semrush and Google Analytics
- Product Management: Managed development and deployment of science research-based products for PBS, Janssen Care Path, Elsevier. Employed data visualization to translate science research into accessible formats

UNITED NATIONS   New York, NY
Reporting Fellow, Department of Global Communication   3/22 – 7/22
- Data Analysis: Conducted data analysis on ethnographic studies triangulated across African regions in the mobile app space. Analysis contributed to understanding and improving cross-cultural data communication
- Technical Reporting: Utilized SQL to query and extract relevant data for comprehensive report on Africa Amnesty Month detailing interpretation of weapons collection data, instrumental report in informing policy decisions

BLENDtw MEDIA   New York, NY
Managing Editor   3/19 – 3/21
- Customer-Focused: Led SEO strategy leveraging analytical tools, Python and SQL, keyword analysis, growing the company from daily web traffic of 1K to 100K within 2 years
- Leadership: Managed editorial team of 100+ collaborating with and training web designers and content creators
- Communication: Built content performance dashboards in Tableau, PowerBI and presented to external stakeholders

EDUCATION

CARNEGIE MELLON UNIVERSITY – PART-TIME FOR WORKING PROFESSIONALS
Master of Science in Business Analytics - MSBA   **GPA: 3.8/4.0**   5/25
- Coursework: Machine Learning, Python and R, Probability Statistics, Analytical Statistics, Business, Accounting
- Quantitative Financial Analytics and Options Investing: Develop machine learning models to predict market trends and volatility; evaluate quantamental investment strategies for all market conditions; apply theoretical knowledge to practical scenarios including use of timeseries analysis to inform investment decisions.

COLUMBIA UNIVERSITY   New York, NY
Master of Science in Journalism, Data Specialty   *4.0/4.0*   5/22
- Focus on computational and investigative journalism and data analytics; covered healthcare, science, and tech
- Web Developer for Columbia's Chapter of The Society of Professional Journalists
- Master's Thesis: Comprehensive research report on lack of racial & ethnic diversity in clinical Alzheimer's research

WHEATON COLLEGE   Norton, MA
Bachelor of Science in Neuroscience, German Studies   *3.7/4.0*   5/21
- Membership: Investment Club; Model UN Head Delegate/Finance VP; Admission Guide; Editor-in-Chief, The Wire
- Medical Internships: Atlantis Medical Fellow in Belgrade Hospital; Lab Technician in microscopy; EMT Certified

RESEARCH & PUBLICATIONS

MIT Science Policy Review, Review Article   9/22
- Co-author literature review on use of AI and ML for product quality control in generic drugs

Wheaton College, Advances in Virology, Review Article   9/20
- Researched and co-authored a literature review on viral shedding detection of SARS-CoV-2

Talentnook.edu, Research Report   1/21
- Researched and published comprehensive report on parent engagement and its impact on childhood education

ADDITIONAL INFORMATION

- **Languages:** Fluent in English; Written proficiency in German, Dutch, Spanish
- **Technical Skills:** Python, R, VBA, (No)SQL, Tableau, PowerBI, ApacheSpark, J-Flow, QGIS, Sigma, PyTorch, AI, Machine Learning, Financial Modeling, Equity Research, Quantitative Analysis, Stochastics, Nonlinear PDEs
- **Volunteer:** MIT Club of Boston Strategic Planning Committee; Wheaton College Alumni Committee President