

Filip Matic

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EDUCATION

Columbia University

Aug. 2024 – Present

MA in Mathematics of Finance

New York, NY

- Relevant Coursework: Time-Series Modeling, Stochastic Processes, Machine Learning for Finance, Model & Trading Derivatives, Fixed Income Portfolio Management, Hedge Fund Strategies & Risks

Grinnell College

Aug. 2020 – May 2024

Bachelor of Arts in Mathematics

Grinnell, Iowa

- Concentration in Statistics and a Second Major in Political Sciences
- Study-abroad in Buenos Aires, VP of the Chess Club, Senior Debate Member
- Relevant coursework: Machine Learning, Probability & Statistics, Mathematical Modeling, Statistical Modeling, Abstract Algebra

WORK EXPERIENCE

CBS Systems

Jun. 2024 – Aug. 2024

Data Science Consultant Intern

Belgrade, Serbia

- Engineered predictive models for price elasticity and executed constraint-based optimization in Python, establishing a foundation for strategic pricing decisions for the largest oil and gas company in the country and for a regional supermarket chain
- Utilized machine learning techniques, including XGBoost and Random Forests, to analyze and forecast market demand from complex, real-world datasets, achieving up to 93% forecast accuracy and enhancing data-driven decision-making processes
- Created an interactive dashboard for streamlined usage and interpretation, enabling more effective stakeholder communication

Sampro, LLC

Jun. 2023 – Aug. 2023

Statistics and Data Science Intern

Belgrade, Serbia

- Developed predictive models of customer behavior and business analytics, enabling leadership to make data-driven decisions and improve customer engagement by 15% through optimized promotional offers
- Employed R and Python for advanced data analysis and statistical modeling, boosting marketing campaign effectiveness by 18%
- Translated complex data into actionable insights via creative visualizations and reports, presented findings to senior leadership
- Collaborated with a team to streamline data processing and analysis, cutting down data processing time by 20%

Solex Capital LTD

Jan. 2021 – Aug. 2021

Financial Analyst Intern

UK-Remote

- Applied financial forecasting, data interpretation, and modeling techniques to support the Eastern European market-entry strategy
- Conducted comprehensive research and analysis of emerging markets, delivering sophisticated investment models and insights, informing strategic planning decisions and identifying two high-potential investment opportunities

LEADERSHIP & COMPETITIONS

Community Adviser - Grinnell College

Aug. 2022 – May 2024

- Oversaw various administrative tasks including reporting, budgeting, communication, and resource allocation, ensuring smooth operations and effective use of resources for student programs
- Innovated and implemented strategies to enhance community engagement and support for 34 students, leading to a 30% increase in student participation in community events

CFA Research Challenge Iowa

Nov. 2022 - Feb. 2023

- Led Grinnell College's team of 5 to 2nd place finish, and authored a 20-page detailed financial report adhering to CFA standards
- Conducted a comprehensive case study on a company's future stock price using DCF Modeling, Relative Valuation, Monte Carlo Simulations, and Sensitivity Analysis, achieving an accurate peak prediction and validating investment hypotheses

Mathematical Contest in Modeling by COMAP

Feb. 2022 & Feb. 2023

- Engineered a sophisticated statistical model for trading gold and bitcoin in Python and R, accurately predicting optimal timing for switching between the two, and outperforming the S&P 500 by 800% between 2009 and 2022
- Developed a differential-equations based model for sustainable resource management in Kenyan national parks

PUBLICATIONS

- Authored "Javier Milei, análisis de un discurso político", in ABACO Volumen 2/3-2023-No. 116-117
- Authored "Bad Prioritization of Help Pushed the Society into Chaos: Case study of Mali" in ABACO Volume 1-2023-No. 115
- Co-Authored "Trotsky as a product of specific time" in Serbian Journal of Engineering Management Vol. 6, No. 3, 2021

LANGUAGES & ACTIVITIES

- **Languages:** Spanish (native), Serbian (native), English (fluent), Russian (B2 level)
- **Activities:** retired professional chess player, geopolitical risk research, swimming, trading competitions