Rene Jean-Marie
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GitHub Profile

Summary

First-Class Mathematics graduate from the University of Warwick with expertise in Stochastic Processes, Markov Chains, and Game Theory. Over one year of experience in quantitative research and mathematical modelling within fast-paced environments. Proven ability to analyse large datasets, develop sophisticated models, and automate workflows using C++ and Python. Seeking to leverage strong analytical skills to contribute to systematic trading strategies at Albert Bow.

Key Skills
  - Quantitative Research
  - Statistical Modelling
  - Predictive Analytics
  - High-Frequency Trading
  - Market Data Analysis
  - C++ and Python Programming
  - Time-Series Analysis
  - Process Automation
  - Research Pipelines
  - Model Validation
  - Data Science
  - Machine Learning
  - Market Microstructure
  - Backtesting

Experience

Quantitative Game Mathematician
RAWiGaming, London
May 2024 - Present
  - Analysed large datasets and developed sophisticated mathematical models using C++ and Python, focusing on risk-reward calibration and system efficiency.
  - Conducted rigorous time-series analysis to optimise performance and automate complex workflows.
  - Utilised Python for data-driven modelling to enhance the fairness and stability of gaming systems.

Junior Games Mathematician
Push Gaming, London
May 2023 - Dec 2023
  - Designed and validated the statistical core of online applications using Java, ensuring mathematical integr

ity and robustness.
- Streamlined analytical workflows using advanced Excel functions, significantly improving efficiency in data processing.
- Iteratively improved methodologies to establish a data-centric development process, enhancing model accuracy and performance.

Education

BSc (Hons) Mathematics
University of Warwick, Coventry
First Class Honours

Relevant Coursework:
   - Mathematical Finance
   - Mathematical Modelling
   - Stochastic Processes
   - Markov Chains
   - Game Theory

A-Levels
King's College London Maths School
   - Mathematics: A
   - Further Mathematics: A
   - Physics: A*

Leadership
   - President, Warwick Pride Society - Led stakeholder coordination and organised large-scale events.
   - Sergeant, RAF Air Cadets - Demonstrated leadership, discipline, and high performance under pressure.