

Rene Jean-Marie

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Professional Summary

First-Class Mathematics graduate from the University of Warwick with deep expertise in Stochastic Processes, Markov Chains, and Game Theory. Proven track record in developing high-performance mathematical models using C++, Python, and Java within fast-paced environments. Adept at analysing large datasets, automating complex workflows, and applying rigorous quantitative reasoning. Seeking to leverage strong analytical skills to deliver high-quality systematic trading strategies at Onyx Capital Group.

Technical Skills

- **Programming:** Python (Proficient), C++ (Proficient), Java
- **Quantitative Modelling:** Stochastic Processes, Markov Chains, Game Theory, Mathematical Finance, Time-Series Analysis
- **Data Analysis:** Predictive Analytics, Statistical Modelling, Process Automation, Advanced Excel (Lambda/Map)
- **Tools:** GitHub, JIRA, Confluence

Professional Experience

Quantitative Game Mathematician | RAWiGaming – London | May 2024 – Present

- Develop and implement sophisticated C++ mathematical models with a focus on risk-reward calibration and system efficiency.
- Conduct rigorous time-series analysis to optimise performance and automate development workflows.
- Utilise Python for data-driven modelling to enhance fairness, stability, and engagement of complex systems.

Junior Games Mathematician | Push Gaming – London | May 2023 – Dec 2023

- Designed and validated the statistical core of online applications using Java, ensuring mathematical integrity and robustness.
- Streamlined analytical workflows using advanced Excel functions (Lambda, Map, VLOOKUP), significantly improving efficiency.
- Iterated on existing methodologies to establish a more rigorous, data-centric development process.

Education

University of Warwick | BSc (Hons) Mathematics – First Class Honours

Relevant Coursework: Mathematical Finance, Mathematical Modelling, Stochastic Processes, Markov Chains, Game Theory, Mathematics in Industry.

King's College London Maths School | A-Levels: Mathematics (A), Further Mathematics (A), Physics (A*)

Leadership & Collaborative Experience

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