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# Rene Jean-Marie

London, E11 | 07983 225213 | rene.jean-marie@outlook.com | [GitHub Profile](#)

## Professional Summary

First-Class Mathematics graduate from the University of Warwick with expertise in Stochastic Processes, Markov Chains, and Game Theory. Experienced in developing high-performance mathematical models using C++, Python, and Java. Proven ability to analyze large datasets, automate workflows, and apply quantitative reasoning. Seeking to leverage analytical skills to deliver systematic trading strategies at Onyx Capital Group.

## Technical Skills

- **Programming Languages:** Python, C++, 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 C++ mathematical models focusing on risk-reward calibration and system efficiency.
- Conduct time-series analysis to optimize performance and automate development workflows.
- Utilize Python for data-driven modelling to enhance system fairness and stability.

**Junior Games Mathematician**

Push Gaming - London | May 2023 - Dec 2023

- Designed and validated the statistical core of online applications using Java, ensuring mathematical integrity.
- Streamlined analytical workflows with advanced Excel functions, improving efficiency.
- Enhanced existing methodologies to establish a rigorous, data-centric development process.

## Education

**University of Warwick**

BSc (Hons) Mathematics - First Class Honours

**Relevant Coursework:** Mathematical Finance, Stochastic Processes, Markov Chains, Game Theory

**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 organized large-scale events.
- **Sergeant, RAF Air Cadets:** Demonstrated leadership and high performance under pressure.

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