Guillaume (Will) PAYA-MONET
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Full UK Settled Status

Professional Experience

07/2023 Present **AI Junior Software Engineer – Supraliquid** *(London, United Kingdom)*
- Developed LLM-powered software in Python/PyTorch leveraging prompt engineering, creating 4 unique system actions (conversation-to-query, speech-to-text, conversation-to-graph, configuration-to-action), to create a product to help businesses streamline their operations.
- Utilized an iterative build-deploy-monitor-evaluate cycle to guarantee the reliability of the 4 system actions.
- Wrote requirements and specifications for the conversational text-to-action system to document the development of the project.
- Continuously advising the product manager on AI technologies capabilities to guide the strategic decisions.

06/2022 09/2022 **Quantum Computer Scientist – Riverlane** *(Cambridge, United Kingdom)*
- Designed and built a tool, in Rust, to simulate the execution of quantum algorithms on a quantum computer with a fully customizable control system, to allow for fast abstract simulations for rapid architecture iteration benchmarking, saving more than 5 hours per simulation compared to standard methods.
- Built an additional tool in Python enabling the effective visualization of the simulations over time, to continuously improve the architecture's performance.

07/2021 08/2021 **Data Scientist - HawAI (Hardware for AI)** *(Grenoble, France)*
- Designed the methodology and built the models and tools for the rigorous performance benchmarking of 10 state-of-the-art recommender systems, to perform an analysis of these systems against the company's flagship product.
- Tested, evaluated, and benchmarked their accuracy and scalability.
- Delivered the data-driven competitive analysis of the research to the entire company and its stakeholders.

Education

09/2023 11/2024 **University of Oxford** *(Oxford, United Kingdom)*
MSc - Mathematics and Foundations of Computer Science (Grade: 73/100)
Major: Quantum processes and algorithmic computation, category theory, computational game theory.
Dissertation (Grade: 74/100): *Performance Evaluation of Free Fermionic Quantum Recurrent Neural Networks*. Built and evaluated the performance of classical and quantum RNNs solving different text-based tasks, incl. text generation.

09/2020 09/2024 **Telecom Paris - Institut Polytechnique de Paris** *(Paris-Saclay research-innovation cluster, France)*
MEng - Theoretical Computer Science and Data Science (Grade: 3.6/4)
Major: Logic, computability, complexity theory, machine learning, text mining, game theory, and competitions in programming (in C++).
Minor: Business economics for strategy and innovation, corporate finance.

09/2017 06/2020 **École Polytechnique - Institut Polytechnique de Paris** *(Paris-Saclay research-innovation cluster, France)*
BSc - Double Major in Mathematics and Computer Science (Grade: 15/20)
Major: Algebra, analysis, topology, differential calculus, concurrent computing, statistics, stochastic processes.
Dissertation (Grade: 16/20): *Towards a Generator of Discrete Models in the Form of Simple and Efficient Maximum Flow Algorithms using Category Theory.*

Additional Experiences and Achievements

11/2022 06/2023 **VC Trainee for High Tech Startups - Innovis VC**
Analysed and evaluated UK startups for venture capital firms in the largest European student-led venture capital organisation. Presented to VC firms' partners and managing directors. Achieved top award in due-diligence competition.

09/2022 07/2023 **Telecom Paris Innovation Prize Sourcing**
Led a team of 7 students. Sourced, analysed, and evaluated 10 quantum start- ups and 30 nanotechnology start-ups in France, to find the most innovative for the Telecom Paris Innovation Award.

03/2021 **Hi!Paris Hackathon** *(Paris-Saclay research-innovation cluster, France)*
Led a team of 5 to optimise the cost of energy grids using Machine Learning methods. First place winner for the team's Scientific Approach out of 35 teams (Cap Gemini Award). Also won 3rd place for the Innovation Approach, 3rd place for Interdisciplinary Approach, 3rd place for Business Opportunity.

Languages & Skills

Languages	English (native speaker), French (native speaker), German (level B1)
Programming Languages	Python (incl. Pytorch, Pandas) (adv), C++ (adv), Rust (adv), SQL (int)
Project Management	Agile, Scrum, OKRs
Certifications	Cambridge AO: Managing Software Architecture
	MIT: Introduction to Quantum Computing & Applications
	Santa Fe Institute: Computation in Complex Systems