

Hasan AL AMEEN

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Education

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| Mines Paris - PSL
<i>Generalist Engineering, Spec : Advanced Probability and Geostatistics</i>
• Relevant Coursework: Deep Learning, Mathematical Statistics, Game Theory, Quantum Computation, Stochastic Processes. | 2022 → 2025
Paris, France |
| Lebanese University
<i>Diploma in Computer and Communication Engineering (Rank: top 2%)</i>
• Relevant Coursework: Data Structures and Algorithms (C++), Operation Research, Algebra, Numerical Analysis, Statistics, Signal theory and processing. | 2018 → 2022
Beirut, Lebanon |
| Lebanese University
<i>Pure and Applied Mathematics (L2 and L3), in-parallel with engineering program</i>
• Relevant Coursework: Measure and Integration Theory, Functional Analysis and Optimization, Probability Theory, Graph Theory, Group Theory. | 2020 → 2022
Beirut, Lebanon |

Experience

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| Lexifi
<i>Software Engineer Intern</i>
• Worked on optimizing the build system "dune" for Ocaml, which is used to construct an algebra for financial contracts and pricing.
• Integrated a new feature of ocaml's compiler with dune, resolving several open issues : add support for -H flag
• Skills : Ocaml, C, git, algorithms | April 2024 → August 2024
Paris, France |
| Safran Tech
<i>Research Internship in Statistical Learning applied to Physics.</i>
• Investigating state-of-art deep learning architectures (transformers, INRs, Boltzmann networks) tweaked to tackle problems in mathematical physics.
• Implementation and testing on real datasets and simulated PDEs, with industrial use cases in accelerating design process.
• Skills : Python, research, deep learning, mathematics | Sep 2023 → March 2024
Châteaufort, France |
| Centre de Recherche d'Informatique - Mines Paris
<i>Research Intern</i>
• Used Coq to develop a formal implementation of the Dictatorship mechanism to prove that there is no cheating strategy.
• Applications in kidney exchange and auctions.
• Skills : Coq, algorithmic game theory, formal systems | February 2023 → May 2023
Paris, France |

Overall Skills

Languages: C, C++, Python, Ocaml
Technologies: Git, SLURM, Distributed Computing for Scientific Applications
Concepts Problem-Solving, Machine Learning, Algorithms
Dialect Arabic (Native), English (Advanced Proficiency), French (Professional Proficiency)

Achievements

- Finalist of the Fédération Française des Jeux Mathématiques comptition 2024.
- Won the 3rd place in the Art and Science fair, held at the Lebanese American University, 2017

Social Engagements

Cyber-Community Club - Lebanese University: Participated in workshops, attended and gave lectures on cryptography and ethical hacking
Sports-Engagements: Basketball, Football, Krav-Maga