

Zein SAKKOUR

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I am actively seeking an internship and/or a work-study program (Alternance) starting September 2024.
Calendrier Alternance : 2 semaine entre entreprise et école entre Septembre – février puis 2 mois / 2 mois.

EDUCATION

CentraleSupélec

Master's in General Engineering (Diplôme d'Ingénieur Grande École)

Paris, France
Ongoing –2026

▪ **Relevant Coursework:** Probability and Partial Differential Equations, Strategic Interactions in Game Theory, Modeling Representations and Analysis, Quantum Physics, Industrial Engineering, Electronic Systems.

MIT Sloan School of Management

MicroMaster's in Finance (Online)

Massachusetts, USA
Ongoing –2024

▪ **Awards & Honors:** Scholarship 90%.

▪ **Relevant Coursework:** Mathematical Methods in Quantitative Finance, Derivatives Markets: Advanced Modeling & Strategies.

Sorbonne University

Bachelor of Computer Science **3.9/4.0 GPA**

Paris, France
2020 –2023

Relevant Coursework & Ranking:

Computability & decidability (5th/88), Advanced algorithms (17th/116), AI & Operational Research (8th/129).

Bachelor of Mathematics

3.9/4.0 GPA

2020 –2023

Relevant Coursework & Ranking:

Advanced Measure and Probability Theory(7th/174), Numerical & Functional Analysis, Multilinear Algebra.

WORK EXPERIENCE

Quantitative Portfolio Management Intern, Allianz

July 1st 2024– now

IT & Cybersecurity Company

Paris, France

▪ Assisted in the analysis and optimization of investment portfolios, focusing on asset allocation and performance enhancement.

▪ Utilized quantitative methods and financial models to support investment strategies and portfolio decisions.

Software Engineer, SYSTEMIS

July 1st 2023 – June 30th 2024

IT & Cybersecurity Company

Paris, France

▪ Creating and implementing software solutions in Python/Django with a DEVOPS and agile methodology (Scrum, Kanban).

▪ Monitoring vulnerabilities identified by SAST/SCA tools (CheckMarx, LifeCycle, ...).

▪ Performing on-going security testing and code review to find non identified vulnerabilities by our SAST/SCA tools.

▪ Participated in penetration testing and conducted vulnerability assessments (Nmap, OpenVAS, Metasploit, and more).

▪ Researched the influence of Artificial Intelligence on cybersecurity.

Strategy Consultant Student Project, Boston Consulting Group (BCG)

Paris, France

Global management consulting firm

February 2024

▪ Conducted in-depth market analysis to identify growth opportunities for clients in the strategy consulting project at BCG.

▪ Collaborated with cross-functional teams to develop and implement data-driven strategies optimizing client success.

Research & Development Intern (Python and C++), LIP6-Lab of Sorbonne University

Paris, France

Institution of Higher Education's Research Lab

March 1st 2022 – July 15th, 2022

▪ Implemented cryptanalysis algorithms, including hill-climbing, ICM, BSGS, and genetic algorithms using **Python and C++**.

▪ Studied the effectiveness of these algorithms on a range of cryptosystems, such as DSE cipher, Vigenere, El-Gamal, and RSA.

Competitive Programming Training (Python and C++), LIP6-Lab of Sorbonne University

Paris, France

Institution of Higher Education

September 1st 2021 – February 15th, 2023

▪ Developed strong problem-solving (algorithms, data structures) skills, with focus on **Python and C++** during intensive training.

▪ Actively engaged in weekly competitive programming training sessions, including internal contests with graduate students.

ACCOMPLISHMENTS

Southwestern Europe Contest SWERC Programming Contest

Milano, Italie

ICPC International Collegiate Programming Contest

February 17th, 2023

▪ **Ranked 36th** out of 120 teams, 7th among the French teams, achieved the best historical ranking of Sorbonne University.

International Olympiad in Informatics IOI Certificate of Appreciation Syrian IOI Qualifications.

2017, Syria

▪ **Ranked 2nd** at the IOI Qualifications (Syria-Belarus-Russia).

2018 Minsk, Belarus

International Mathematical Olympiad IMO Certificate of Appreciation Syrian IMO Qualifications.

World Robot Olympiad WRO Association

▪ **Ranked 1st** in the regional phase, qualification for the world championship.

2015, Syria

▪ **Ranked 2nd** in the regional phase, qualification for the world championship.

2016 & 2017, Syria

PROFESSIONAL SKILLS

▪ **Languages:** French Fluent, English Fluent, Russian Notions, Arabic Native.

▪ **Proficient:** C/C++ (STL, Eigen), Python (Numpy, Gurobi, Pandas, Scikit-learn, TensorFlow).

▪ **Experienced:** Ocaml, SQL, Java, JavaScript, R, Microsoft Office, Bloomberg, Machine Learning (Scikit-learn, TensorFlow).