





Anouar Achghaf

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Education

CentraleSupélec, Paris-Saclay University - Engineering Degree

Paris, France

Master of science

2021–2025

Coursework: Advanced data structures and algorithms, Operating systems, Object Oriented software engineering, C++ programming, CUDA, System design, Networks and Security, Statistics and Learning, Analysis, Measure theory and Probability, Mathematical modeling.

Activities: Coach and Problemsetter for the Moroccan Olympiad in Informatics.

Lycée Pierre de Fermat - Preparatory classes

Toulouse, France

Undergraduate courses: preparing for "GRANDES ECOLES" entrance exams.

2019–2021

Coursework: Linear Algebra, Real Analysis & Topology, Graph theory, Automata Theory and Formal Languages.

Experience

Qube Research & Technologies

Paris, France

Quantitative Technologist - Electronic Market Making

April 2024–Current

- Developing and optimizing HFT strategies in C++, focusing on low-latency execution and performance tuning
- Building monitoring tools for the production setup to detect inefficiencies and areas of improvement
- Collaborating with traders and researchers to make timely refinements to trading logic while retaining the system's maintainability and scalability

Huawei Dublin Research Center

Dublin, Ireland

Software Engineering Intern

March 2023–August 2023

- Designed and implemented time series clustering algorithms with emphasis on scalability and extensibility, in Python and C++
- Worked on a web application for visualizing graph representation of code in Java

Projects

ATS: C++ library for algorithmic trading systems

Winter 2023

- Developed a concurrent and modular library using multithreading and object-oriented programming principles
- Connected to the Binance API and implemented examples strategies as demos
- Used ImGui for the dashboard, GoogleTest for testing and Doxygen for the documentation

Suffix automata visualizer

Winter 2022

- Used Graphviz to visualize the suffix automaton data structure
- Developed a web API using Flask

Image compression using neural networks

Summer 2021

- Used Self-organising maps for image compression in specific fields
- Implemented JPEG compression for comparison in this report

Skills

Technical skills: C++, Java, Python, OCaml, MySQL, Matlab, \LaTeX

Tools: Vim, GDB, VSCode, Git, Docker, Unix Shell

Languages: English (Fluent) | French (Fluent) | Arabic (Native) | Spanish (Basic)

Awards

International Olympiad in Informatics; Finalist

Aug 2018, Sep 2019

Moroccan Olympiad in Informatics; 1st place

July 2018, July 2019

SWERC ICPC Regional; 22nd place out of 109

Apr 2022

Arab Olympiad in Informatics; Gold medal

June 2019

National Olympiad in Mathematics; National Finalist

July 2019