

Celian Fabas

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PROJECTS

- DNS Server** | *Python and C* Dec 2022 - Feb 2023
- Created a DNS server in both Python and in C
- Image Manipulation Library** | *C/C++* Dec 2022 - Feb 2023
- Library used to create or apply filters, transforms or draw on existing image files (PNG, JPEG, BMP)
- GUI Email Client** | *Python - PySide6* Dec 2022 - Feb 2023
- A Python based GUI client to view and send emails
- Patient X-ray Scan Anomaly Detection** | *Python - Tensorflow* Sept 2021 - Jan 2022
- CNN algorithm to detect whether a patients' x-ray presents signs of COVID-19 or Pneumonia

FRAMEWORKS AND SKILLS

Frameworks | *Python, C/C++*

- **User Interface Applications:** Qt/PySide6, DearImGui/DearPyGui
- **Web Frameworks:** Django, Flask, FastAPI, SQLAlchemy
- **Machine Learning:** Tensorflow, Keras, PyTorch
- **Data Manipulation:** Numpy, SciPy, Pandas, Polars
- **Finance:** QuantLib, PyFolio CCXT, Backtrader

Skills | *General Concepts*

- **Databases:** MongoDB, PostgreSQL, MySQL, REDIS
- **Information Transfer Protocols:** TCP, UDP, FTP, HTTP, SMTP, IMAP, Sockets, Restful APIs, gRPC
- **Architectures:** Model View Controller, Microservices, Client-Server

AREAS OF KNOWLEDGE AND PERSONAL PURSUITS

Areas of Knowledge |

- **Languages Spoken:** French (Fluent, learned in France), English (Fluent, learned in Australia), Spanish (Understand text)
- **Computer Science:** Computability, Algorithms, Databases, Information Theory
- **Mathematics:** Number Theory, Real/Complex Analysis, Graph Theory, Group Theory, etc. ...
- **Physics:** Classical Mechanics (Newtonian, Laplacian, Hamiltonian), Quantum Mechanics, String Theory
- **Finance:** Security Analysis and Modeling, Ito Calculus, Black-Scholes Model, Algorithmic Trading

Personal Pursuits |

- **Philosophy and the occult:** Camus, Nietzsche, Loytard, Deleuze and Guattari, Land, Hermes, Geberi, Lucretius, etc. ...
- **Literature and Poetry:** Yukio Mishima, Dostoevsky, Dante, Baudelaire, Goethe, Kafka, Lovecraft
- **Art:** Rembrandt, Jacques Louis David, Michelangelo, Matisse, van Gogh, Raphael, Caravaggio
- **Physical Activities:** Weight lifting, Airsoft, Sailing

ACEDMIC EXPERIENCE

- Université Paris Cité** | *University - "License en Mathématiques pure et appliquées"* Oct 2023 - Jun 2025
- Courses undertaken: Physics (Mechanics), Mathematical Reasoning, Mathematics (Algebra 1/2, Analysis 1/2)
- Lycée Buffon** | *High School* Sept 2020 - Jun 2023
- Selectives in NSI (Comp-Sci), Physics and Chemistry, Mathematics and Advanced Mathematics