

Celestine Sauvage

DATA ENGINEER

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Work experience

COMPUTER SCIENTIST

HYGEOS · CDI

Lille

09/2020 – 03/2023

MULTIPLE IT RESPONSIBILITIES AROUND SATELLITE IMAGE PROCESSING

- Information System Manager (hardware/OS/network maintenance, bash/Python scripting)
- Images scientific processing chains development, enhancement and maintenance (Python)
- Scientific databases (air quality, aerosols, meteorological data...) design, maintenance and processing

VOLUNTARY CIVIC SERVICE

INSPÉ LILLE · CDD 9 MONTHS

Villeneuve d'Ascq

12/2019 – 08/2020

ROBOTIC / DIGITAL EDUCATION AND TEACHING

- Mediation around educational robotics and innovative digital tools available within INSPÉ

INTERNSHIP - DEVELOPER AND PROOF VERIFICATION

IRCICA/CNRS · INTERNSHIP 6 MONTH

Lille

03/2019 – 09/2019

SHALLOW EMBEDDING OF IMPERATIVE LANGUAGE IN FUNCTIONAL LANGUAGE FOR FORMAL VERIFICATION WITH COQ

- Extension of a subset of the Gallina language to represent imperative code in Coq
- Add loop statement in functional language with monad
- Prove the equivalence between loop and monad using Hoare logic

Education and training

DATA ENGINEER BOOTCAMP

DATASCIENTEST

France

02/05/2024 – 05/06/2024

- **Programming:** Python fundamentals, Object-oriented Python, Linux & Bash
- **Database:** SQL, MongoDB, Elasticsearch
- **CI/CD:** Git & Github, Quality Assurance
- **Big Data Volume:** Spark
- **Data Science:** Statistics, Machine Learning, Matplotlib
- **Automation and Deployment:** APIs, Docker
- **Website:** Datascientest

MASTER'S DEGREE - COMPUTER SCIENCE

UNIVERSITY OF LILLE

Lille

2017 – 2019

MAJOR : OPTIMIZATION, ALGORITHM AND DATA

- Machine Learning and Decision Uncertainty (scikit-learn) - Compilation - Information extraction (SQL) - Individual centered simulation - Bioinformatic (MAPLE, MATLAB) Technologies and Software for Emerging Data (Hadoop, Apache Pig)
- **Project 1:** Exploration of algorithms and tools for docking molecular
Data analysis, extraction and scripting in Python to find a molecule in basil that can be using to create a new medication for diabetic patients.
- **Project 2:** Execution time analysis on binary executable
Find the time taken by programs executed on real-time systems which have time constraints to respect by using their graph representation after compilation. Project coded in C++ and added to Ottawa.

Skills

Language skills French → mother tongue

English → Listening - C1 · Reading - C1 · Spoken production - B1 · Spoken interaction B1 · Writing - B2

Programming language Linux Bash · Python · Java · C++

Digital skills Database (MySQL, SQLAlchemy, MongoDB) · Git · FastAPI · Pyspark · Docker · Matplotlib · pandas