

Fabien Allemand

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Personal Profile

A Master's student at Télécom Physique Strasbourg Engineering School, specialized in Data Science and Artificial Intelligence. Primarily, looking for Machine Learning/Data Engineer/Python Developer internship from June to August 2023.

Education

Télécom Physique Strasbourg Engineering School

Strasbourg, France

Master in Data Science and AI

Sept 2021 - Current

- **Courses:** Data Science, Programming for Data Science, Statistical Theory, Artificial Intelligence, Machine Learning, Learning Skills through Case Studies
- FabLab manager

Joffre High School

Montpellier, France

Selective Sixth Form

Sept 2019 - July 2021

- Specialised in Mathematics, Physics and Computer Science

Charles Gide High School

Uzès, France

High school degree

Sept 2016 - July 2019

- Graduated with Distinction
- Specialised in Mathematics, Physics and Biology
- Optional physics class in English

Work Experience

Cemosis (Modeling and Simulation Center of Strasbourg)

Strasbourg, France

Internship

June 2022 - July 2022

- Cooperated with a team of researchers to develop an online platform of services for building energy simulation.
- **Technical Skills:** Python (IfcOpenShell, python-OCC, PyTest, xlswriter), CAD, Git.
- **Soft Skills:** Teamwork, Communication, Presentation skills.

University Projects

Database Parsing Program

Strasbourg, France

Télécom Physique Strasbourg Engineering School

Nov 2021 - Dec 2021

- C program to parse data from the DBLP data base.
- **Knowledge:** Graph theory
- **Technical Skills:** C, Makefile, Bash, XML, Git, Doxygen.
- **Soft Skills:** Leadership, Teamwork, Critical Thinking, Presentation skills.

Chess Video Game

Strasbourg, France

Télécom Physique Strasbourg Engineering School

Dec 2021 - Jan 2021

- Chess video game using C++.
- Created tests to ensure respect of all rules.
- Added a graphic user interface made with the SDL.
- **Technical Skills:** C++ (SDL), Makefile, Bash, Doxygen.
- **Soft Skills:** Critical Thinking, Report writing.

Study of Tokamak's Magnetic Confinement

Montpellier, France

Lycée Joffre

Sept 2019 - July 2021

- Simulation of a single charged particle's trajectory in a nuclear fusion reactor using Python.
- Analysis of a nuclear fusion reactions and reactors.
- Numerically solving partial differential equations using SciPy.
- **Knowledge:** Nuclear Fusion Reaction, Electro-magnetic Fields, Partial Differential Equations
- **Technical Skills:** Python (SciPy, Matplotlib).
- **Soft Skills:** Presentation skills.

Personal Projects

Tool for Industrial Designer

July 2022

- Python program to perform specific computation in a graphic user interface.
- **Technical Skills:** Python (PyQt), Photoshop
- **Soft Skills:** Learning programming.

Weather Station

Dec 2021 - Dec 2022

- Create an Arduino based weather station.
- **Technical Skills:** Arduino, PCB making, Soldering, 3D Printing.
- **Soft Skills:** Product designing.

Video Games

Since 2020

- Video games development.
- **Technical Skills:** Python (PyGame, Numpy), C/C++, OpenGL, Unity, Unreal Engine, Blender, Photoshop, Git, Doxygen.

Skills

Programming

Python (Numpy, Pandas, PyTorch, Scikit Learn, TensorFlow, PyQt), C/C++ (SDL, OpenGL), Java, Matlab, R, SQL, Shell (Bash), \LaTeX , Git, Doxygen

Software

Fusion 360, Blender, Ki-Cad, Adobe Photoshop, Adobe Premiere.

Hard Skills

3D Printing, Soldering, Microengraving.

Soft Skills

Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

Achievements

2021 **Best Application Mock-up**, Hacking Industry Camp 2021 (AI Edition)

Strasbourg

2022 **Challenge Finisher**, Strasbourg's Running Competition

Strasbourg

Interests

Sport

Running and hiking.

Traveling

Recent trip to Budapest, Hungary and Barcelona, Spain.

Languages

French

Native speaker

English

Bilingual proficiency

Spanish

Professional proficiency

References available upon request.