Fabien Allemand

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Personal Profile

Master's student at Télécom Physique Strasbourg Engineering School, specialised in Data Science and Artificial Intelligence.
Primarily looking for Artificial Intelligence/Data Science internship from June to August 2023.

Education

Télécom Physique Strasbourg Engineering School
Strasbourg, France

Engineering Degree & Master in Data Science and AI
Sept 2021 - Current

- **Courses:** Deep Learning, Natural Language Processing, Data Mining, Computer Vision, Statistics, Game Theory, Algorithmic, Compilation, Big Data and Metadata
- 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, xslxwriter), CAD, Git.
- **Soft Skills:** Communication, Project management.

University Projects

Road Quality Assessment
Strasbourg, France

Télécom Physique Strasbourg Engineering School & Alcatel-Lucent Enterprise
January 2023 - February 2024

- Long-term engineering project in collaboration with Alcatel-Lussent Enterprise.
- Develop an AI powered Android application in order to improve road maintenance.
- **Technical Skills:** Python, Kotlin, Arduino, PCB, Git, Robot.
- **Soft Skills:** Business experience, Teamwork, Presentation skills.
- `https://faballemand.github.io/html/projects/pi.html`

Defect Prediction on Production Line
Strasbourg, France

Télécom Physique Strasbourg Engineering School
January 2023 - February 2023

- Develop an AI based solution for a real world industry problem.
- **Knowledge:** Supervised Learning.
- **Technical Skills:** Python (SciKit-Learn, Jupyter), Git.
- **Soft Skills:** Teamwork, Presentation skills.
- `https://faballemand.github.io/html/projects.html`

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, Critical thinking.
- `https://faballemand.github.io/html/projects/dblp.html`

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.
- `https://faballemand.github.io/html/projects/tipe.html`

Personal Projects

Tool for Industrial Designer
July 2022
- Python program to perform specific computation using a graphic user interface.
- **Technical Skills:** Python (PyQt), Photoshop.

Weather Station
Dec 2021 - Dec 2022
- Created an Arduino based weather station.
- **Technical Skills:** Arduino, PCB making, Soldering, 3D Printing.
- **Soft Skills:** Product designing.
- `https://faballemand.github.io/html/projects/weather_station_1.html`

Video Games
Since 2020
- Video games development.
- **Technical Skills:** Python (PyGame, Numpy), C/C++, OpenGL, Unity, Unreal Engine, Blender, Photoshop, Git, Doxygen.
- `https://github.com/FABallemand/crazy_driver_1`
- `https://faballemand.github.io/html/projects/chess.html`

Personal Website
Since 2022
- Web development to create my personal website.
- **Technical Skills:** HTML, CSS, Git.
- `https://faballemand.github.io/index.html`

Skills

Programming	Python (Numpy, Pandas, PyTorch, Scikit-Learn, TensorFlow, PyQt...), C/C++ (SDL, OpenGL), Java, Matlab, R, SQL, Shell, LaTeX, Git, Doxygen, HTML, CSS
Software	Excel, Fusion 360, Blender, Ki-Cad, GIMP, Adobe Photoshop, Adobe Premiere.
Hard Skills	3D Printing, Soldering, Microengraving, Laser cutting.
Soft Skills	Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

Achievements

2023	**238/1084 (22 km),** Nîmes Urban Trail.	*Nîmes*
2022	**127/612 (21 km),** Corrida de Noël Illkirch-Graffenstaden.	*Illkirch-Graffenstaden*
2022	**Challenge Finisher (31 km),** Courses de Strasbourg.	*Strasbourg*
2021	**Best Application Mock-up,** Hacking Industry Camp 2021 (AI Edition).	*Strasbourg*

Interests

Sport	Running and hiking (`https://www.strava.com/athletes/88953196`).
Traveling	Recent trip to Budapest, Hungary and Barcelona, Spain.

Languages

French	Native speaker
English	TOEIC C1
Spanish	Professional proficiency

References available upon request.