LOÏC COYLE

Nuclear & Software Engineer

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WORK EXPERIENCE

Researcher
EPFL/CERN

📅 2019 – 2024   📍 Geneva, Switzerland

- Using Machine Learning techniques to model, minimise and improve the understanding of losses occurring in the LHC.
- Developed a number of Machine Learning models targeting various aspects of the Large Hadron Collider.
- Developed purpose built, open-source, python tooling to facilitate data fetching, processing and visualisation.

Master's Research Project
EPFL/CERN

📅 Feb 2018 – March 2019   📍 Geneva, Switzerland

- Analysis of LHC experimental data to further the understanding of particle losses and develop models of the LHC using both statistical analysis and Machine Learning techniques.

Internship
Culham Center For Fusion Energy

📅 May 2017 – August 2017   📍 Culham, UK

- Combined a variety of simulation software such as GEF, Talys and Geant4 using custom written python tooling to generate nuclear reaction datasets.

EDUCATION

Reactor Physics and Nuclear Engineering Degree
Grenoble Institute of Technology - Phelma

📅 2015 – 2018   📍 Grenoble, France

- Includes an ERASMUS student exchange with the Ecole Polytechnique Fédérale de Lausanne in Switzerland.

Bachelor's in General Engineering Degree
Grenoble Institute of Technology - Phelma

📅 2015 – 2016   📍 Grenoble, France

Classes Préparatoires - Mathematics & Physics
Lycée Vauvenargues

📅 2013 – 2015   📍 Aix-en-Provence, France

- Two years of intensive undergraduate program preparing for the national entry exams of graduate schools of engineering.

SKILLS

`Python` `Typescript` `Rust` `C/C++` `SQL & DB Design` `Latex` `React` `Qt` `git` `Docker` `Linux` `Front-End Dev.` `Back-End Dev.` `Data Science` `Data Visualisation` `Machine Learning`

SOFT SKILLS

`Rigour` `Autonomy` `Result Oriented` `Active Listening` `Analytical Thinking` `Scientific Communication` `Team Spirit` `Independent Learner` `Curiosity`

LANGUAGES

English	●●●●●
French	●●●●●
German	●●●○○
Arabic	●○○○○

EXTRA DIPLOMAS

- University of Cambridge: Certificate of Proficiency in English
- University of Cambridge CAE: Certificate in Advanced English

EXTRA TRAINING

US Particle Accelerator School

📅 Jan 25 – Feb 19 2021 📍 Remote

- Accelerator and Beam Physics.

Cern Accelerator School

📅 Nov 11 – 23 2018   📍 Thessaloniki, Greece

- Numerical Methods for Analysis, Design and Modelling of Particle Accelerators.

INTERESTS

- Personal projects in software development, web development, digital imagery.
- Chess, music, piano.
- Travelling & discovering different cultures and countries.
- Snowboarding, hiking and climbing.

REFERENCES

Available on request.