Clément BIOU

Geoscientist & Software Developer willing to contribute to the numerical geosciences' expansion

Nanterre (92)
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Age: 24 – French
Willing to work abroad
Driving license

Skills

Technical Skills:

- 3D-modeling & interpretation: **Gocad, Petrel, Sismage-CIG**
- Full-wave modeling, processing, seismic imaging: **TOTEM**
- Algorithmic languages: **Python**, **Java**, **JavaScript** (Vue.js, Angular), **SQL, Pro*C**

Algorithmic environment: **Jupyter, Spyder, PyCharm, Matlab, Eclipse, MySQL, VS Code, Oracle**

GIS: **ArcGis, QGis**

Languages:

- English (6.5/9 IELTS Competent user)
- Spanish (B1 level)

Professional & Personal Experiences

MAI 2022 – PRESENT

Junior R&D Software Engineer - Consulting / Solutec - Paris

Full stack developer:

- **Back-End: SQL**: PL/SQL Developer – Oracle, MySQL), **Java**: Spring Boot, Maven, **REST** Methodology, **Pro*C**
- **Front-End: HTML/CSS**, **JavaScript** (Angular and Vue.js), Bootstrap framework

Mission at **SymphonyRetailAI CPG**: Development of functionalities on a web application used by clients of retail to manage control of all retail store operations in any channel.

SEPTEMBER 2020 – SEPTEMBER 2021

Junior Geophysicist - Work-study contract / TotalEnergies - CSTJF Pau

- **Theoretical and practical formation in geophysics from acquisition to interpretation:** feasibility, seismic imaging; seismic interpretation; rock physics and petroelastic model; AvO; microseismic, remote sensing & non-seismic methods – **Reference: Patrick TURPIN**;
- **Final year project:** evaluation of the impact of karst features on synthetic seismic and petroelastic properties. **Creation and use of Python and java scripts to automate** manual tasks.

2020 – 2021

President of SPE University of Lorraine Student Chapter (Society of Petroleum Engineers) / Nancy

JULY – AUGUST 2019

Data scientist trainee / CMHM Andra - Bure (55)

- Contribution to the Geomechanics Analytics project which represents an IT solution for processing data collected within the Underground Laboratory of Meuse/Haute-Marne: creation of an **algorithm** treating the **permeability** data in Python, which was divided into two components: **Data Analytics** & **Data visualization**.

Education

JANUARY – JUNE 2020

Geophysics specialization / NTNU - Trondheim (Norway)

- **2D & 3D Seismic interpretation** using the 3D-modelling software Petrel developed by Schlumberger – 1-week training
- **Petrophysics and well logs interpretation**.
- **Reservoir seismic:** Rock physics & Petro-elastic Modelling; AvO analysis; 2D - 3D - 4D seismic interpretation.

2018 – 2021

Geological engineering student / Ecole Nationale Supérieure de Géologie (ENSG) of Nancy

- **Geology of Energies specialization: Sedimentology & Sequence Stratigraphy; Geophysics & Petrophysics; Geomodeling & Geostatistics**
- **Programming: Python**
- **Geochemistry, Hydrogeology, Geotechnics**

2016 – 2018

« Classes préparatoires » - BCPST/ Lycée Henri-Poincaré - Nancy

Biology, Chemistry, Physics, Mathematics and advanced Geology – Introduction to **Python and creation of an algorithm to model the evolution of a population using Pyzo interface**.

Interests

Trips: Norway, Spain, UK

Reading

Sports: Work out, Badminton

References

- **Patrick TURPIN – TotalSE –** patrick.turpin@totalenergies.com
- **Pascal DEBEC – TotalSE –** pascal.debec@totalenergies.com