

# Gabriel Godefroy

Looking for an opportunity in software development

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French nationality

## Skills

### Informatics

- C++** Oriented object and functional programming.  
Frequent use to write standalone codes and SKUA-GOCAD plugins.
- Python** Frequently used for prototyping, scripting and to link applications.
- Javascript** Basic knowledge - rendering of 3D models within a webpage using WebGL library.
- Java** Basic knowledge - shape characterization in Total proprietary modelling suite.
- Linux** Daily user - bash scripting.
- CI** Continuous integration using Jenkins, GIT and unittest frameworks (Python and C++).

### Languages

- |                |               |                |         |
|----------------|---------------|----------------|---------|
| <b>English</b> | Professional  | <b>Italian</b> | Notions |
| <b>French</b>  | Mother tongue | <b>Spanish</b> | Notions |

### Subsurface modelling

- |                             |   |                             |   |
|-----------------------------|---|-----------------------------|---|
| <b>Geological modelling</b> | Structural and property modelling using SKUA-GOCAD. | <b>Reservoir simulation</b> | Basic knowledge of Eclipse and Intersect. |
|-----------------------------|---|-----------------------------|---|

## Work experience

- 2018–now (2 years) **Geologist, Total - Geoscience Research Centre, Aberdeen, United-Kingdom.**  
I am integrating structural uncertainty into ensemble-based history matching.  
Supervision of 3 MSc. projects.
- 2014–2018 (5 weeks) **Teaching assistant, Université de Lorraine, France and Freiberg University, Germany.**  
I tutored C++ programming, SKUA-GOCAD plugin development and structural modelling.  
100 hours including 75 hours in English. Supervision of 3 MSc. projects.
- 2014, June–Sept (3 months) **Researcher (Internship), ENI - Basin Geology department, Milan, Italy.**  
I implemented a numerical method to reconstruct eroded paleo-topographies in C++.
- 2013, July–Aug **Software developer (Internship), Total - Sismage development team, Pau, France**
- 2012, July **Trainee at Francepierre-PC, Jardres, France**
- 2011, July **Seasonal farm worker, Jardres, France**

## Education

- 2014–2018 **Ph.D. in Geosciences, RING, GeoRessources, Université de Lorraine, France.**  
Kinematic and stochastic fault modeling for structural uncertainty analysis ([link to the pdf](#)).
- 2013–2014 **Master of Science in Petroleum Geosciences, Université de Lorraine, France.**  
Graduated with honors.
- 2011–2014 **Engineering degree, École Nationale Supérieure de Géologie, France.**  
Specialized in Numerical Geology (C++ and Python programming, geological field trips).

## Miscellaneous

- Badminton** Regulator competitor
- Photography** Amateur landscape photographer
- References** Available upon request
- Links** to my professional social networking pages:



LinkedIn



Google Scholar



ResearchGate