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Fadeli | M. Elwardi

Status: Looking for job opportunities in the Petroleum Industry

Fields: Reservoir Engineering, Process and performance improvements, Procedure optimization, Software Development & Research

Profile

A quality-focused reservoir engineering graduate (M.Sc.) with project experience in diverse areas. This ranges from pore-network modeling of flow through porous media up to fully-fledged multiphase isotherm Black Oil reservoir simulations.

This required mastering different technologies, ranging from **C++**, OpenFOAM, Python and popular open source reservoir simulation toolkits (like MRST and even Defiant reservoir simulator).

Prefers: C++, Python for reservoir simulation and data manipulation

Loves: The mathematical aspects of reservoir engineering and fluid flow

Education

2019 / 07 - University of Boumerdes
Graduated as M.Sc. Petroleum Production Engineering

- Master Thesis: Analysis & development of the GRDC reservoir and Implementation of an Open-Source reservoir simulator
- Developed decent two-phase black oil reservoir simulators (IMPES & Coupled) and Analyzed the performance of GRDC reservoir

2014 - 2019 - University of Boumerdes
Master Studies: Petroleum Production Engineering

- Covered special topics in Field Oil/Gas production
- Professionalized in research methods and software development

Training

2019 / 03 - SONATRACH
Practical training at Hassi Messoud's SONATRACH Production Division (Irara, Algeria)

2018 / 04 - SONATRACH
Practical training at Hassi Rmel's SONATRACH Production Division (Hassi-Rmel Field, Algeria)

2017 / 04 - SONATRACH
Practical training at Guessi Twil's SONATRACH Production Division (Hassi-Massoud Field, Algeria)

Achievements I'm proud of

2019 - now - On my free time
Developing an Open Source Reservoir Simulator

- As a continuation of my Masters Project
- Committed to bringing more sophistication to the code

2012 - 2013 - High School
Winner of Algerian Math Olympiads

- Was second-year in high school with math knowledge of an undergraduate student

Skills and projects

</> C++
★★★★★

</> Python
★★★★☆

English
★★★★☆

French
★★★☆☆

Optimization
★★★★☆

Communication
★★★★☆

OpenFOAM
★★★★☆

OpenRSR
(Open Reservoir Simulation Research tool)
 github.com/FoamScience/OpenRSR

 in/elwardi-fadeli

 FoamScience

 FoamScience.github.io