| Chemica | l Eng. |
|----------|--------|
| Software | 9 |
| Develop | er |

Jerson Mosquera Pretelt

Medellín - Antioquia

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github.com/jemosdev

Description

Engineer passionate about for chemistry and software development. Self-taught, responsible and committed person with excellent interpersonal relations. Chemistry Teacher between high school and university courses with research experience in heterogeneous photocatalysis. Proficiency in Python, Django and Databases.

Skills

HTML/CSS/JS, Python, Django, Flask, FastAPI, MySQL, PostgreSQL, MongoDB, Git/Github, Linux, AWS, Docker, English (B1).

Experience

María Josefa Marulanda High School/ Chemistry Teacher

July 2015 - Present

Prepare course materials, homework assignments, and handouts. Evaluate and grade student's class work, laboratory performance and assignments.

University of Antioquia / Auxiliary Professor - Researcher

January 2014 – December 2017

General chemistry and Organic chemistry teaching.

Prepare and deliver lectures to undergraduate students on topics such as organic chemistry and general chemistry.

Research Group: "Applied Physicochemical Processes" 2014 – 2022 Lead research projects, programming and carrying out experimentation and writing articles.

Publications:

- Integration of the straightforward and environmentally friendly sol—gel/solvothermal and photodeposition methods as a way to prepare highly photoactive Au/S-TiO2 and Cu/S-TiO2 materials. (2022)
- TiO2/spacer succinate films grafted onto nylon as a new approach to develop selfcleaning textile fibers that remove stains: a promising way to reduce reliance on cleaning water. (2022)
- Synthesis and Characterization of Photoactive S-TiO 2 from TiOSO 4 Precursor Using an Integrated Sol-Gel and Solvothermal Method at Low Temperatures. (2018)

Tablemac-Duratex S.A./ Production Engineer

June 2009 - February 2010

Responsible to ensure operative tasks were carried out under safe conditions. Generated reports of all impregnated paper quality.

Promoted actions for continuous improvement in the processes.

Education

University of Antioquia / Master of Science in Chemistry

August 2017

University of Antioquia / Chemical Engineering

June 2009

- Backend Development with Python and Django (Roadmap)- Platzi
- Frontend Architecture (Roadmap) Platzi
- Terminal and command line Platzi.

Courses