# Carlos Enrique Salas

## Django Developer | Software Implementation Analyst

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Bachelor's degree in Mechanical Engineering and self-taught developer, Currently Senior Implementation Analyst at Hexagon PPM, involved in the implementation and customization of the materials management software Smart Materials for Colombia's largest petroleum company Ecopetrol.

With strong skills in web development using Python with Django/Flask, experience with database management system such as PostgreSQL and Oracle Database. Including the creation of web applications for 1+ years.

Previously served as Mechanical Engineer for rotary and static equipment in major ECP companies, working in national and international oil and gas projects for 4+ years. Proficient in written and spoken english.



## PROFESSIONAL EXPERIENCE

### November 2021 Present

## Senior Implementation Analyst | Hexagon, SMART MATERIALS, Bogotá-Colombia

- > Responsible for the configuration, installation and customization of Smart Materials.
- > Creation of SmartMaterials integrations with SAP.
- > Creation of Business Intelligence Reports using SQL and Oracle Apex.
- > Work directly with clients to manage initial access, data mapping and transfer, creation of documentation (functional requirements, designs and lessons learned), train and coordinate training for users.
- > Testing and troubleshooting of installed systems.
- > Identify and document technical problems to be escalated to the solver and integrator group of the tool.
- > Provide feedback based on customer experiences for the product and for professional service teams for the product and process improvement.

SmartMaterials | SQL | PL/SQL | API REST | Oracle Database | Oracle Apex |

#### June 2021 November 2021

#### Web Developer | Part time freelancer, CLIENT Y&V, Bogotá-Colombia

> Development of a human resources web application using Diango (Python, SOL, HTML, CSS) for employees to download payroll stubs and labor certificates.

Python SQL Flask Django HTML CSS Azure App Services PostgreSQL

## May 2021

## November 2021

## Mechanical Engineer | IDOM, EQUIPMENT SPECIALIST, Bogotá-Colombia

- > Development of purchasing documents for static and rotating equipment.
- > Pre-selection of rotating equipment and package units.
- > Design of static equipment.

#### September 2017

## Mechanical Engineer | Worley, EQUIPMENT SPECIALIST, Bogotá-Colombia

May 2021

- > Development of purchasing documents for static and rotating equipment.
- > Pre-selection of rotating equipment and package units.
- > Design of static equipment.

#### January 2020

## Corporate training program "Future Leaders" | Worley, GLOBAL SALES AND MARKETING, Bogotá-Colombia

May 2021

Future Leaders is a training program granted by Worley, in this, the participant has the opportunity to get involved in different projects at a global level in different areas within the organization, the program postions are earned through an international selection process where a total of 13 members from different countries are selected.

- > Participation in international projects related to energy transition, strategy, digital transformation and marketing.
- > Trainings every two weeks with prominent members and main leaders of Worley at an international

Leadership Communication Teamwork Interpersonal Relationships English

# **EDUCATION**

2012 - 2017 Bachelor's Degree in Mechanical Engineering, Escuela Colombiana De Ingeniería Julio Garavito, Bogotá, Colombia

## COURSES AND CERTIFICATES

(30-04-2022) CS50's Web Programming with Python and JavaScript (HarvardX).

- > Database design
- > Scalability
- > Security
- > Testing
- > User experience
- > APIs
- > Interactive UIs
- > Python, JavaScript, Django
- > Git/GitHub

(14-09-2021)

Machine Learning for Business Intelligence (Universidad de los Andes).

- > Introductory statistical concepts to Machine Learning
- > Visualization, data structuring and pre-processing
- > Regression models
- > Classification models
- > Unsupervised learning
- > Text mining
- > Introduction to Deep Learning

(01-06-2021)

CS50's Introduction to Computer Science (HarvardX).

- > Computer science and programming fundamentals
- > Algorithmic thinking
- > Algorithms and data structure
- > Web development
- > Software engineering fundamentals



**Programming** Phyton, Django, Flask, C, HTML, CSS, Git, SQL, PostgreSQL, Oracle Database, Oracle Apex, PL/SQL

# </> \/> LANGUAGES

Spanish • • • • • • English • • • • •

# **+** QUALITIES

- > Discipline
- > Commitment
- > Leadership

## Notable Projects

2021-2022 Smart EDP: Digital transformation project for Colombia's largest Oil and Gas company Ecopetrol

Development of a web portal for the Human Resources department of the Oil and Gas engineering company Y&V: Development of a corporate application that allows employees access to payroll stubs and personalized labor certificates. Additionally, the platform allows HR personnel to update the employee database and their payroll stubs on a biweekly basis. The web portal was developed using Django, deployed in Azure App Services, using a PostgreSQL database. The platform includes register, login, authentication and password recovery systems, PDF and CSV management

2017-2021 Oil and Gas: Participation in more than 30 Oil and Gas projects as mechanical engineer specialist in static and rotating equipment for mayor petroleum and energy companies such as Ecopetrol, Enagas and Repsol

2018-2021 **Future Leaders program (Australia, USA, Europe)**: Support in several international projects with Worley's sales and marketing group, especially in projects related to energy transition, sustainability and digital transformation.