JESSICA NOVILLO ARGUDO

COMPUTER SCIENCE TEACHER CANDIDATE

Over **14 years** of experience **developing and maintaining software**

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PROFILE

I am an experienced software developer passionate about developing innovative and customized programs that meet a company's specific needs. Well-versed in technology and writing code to create reliable systems. I am eager to teach my computer science knowledge to children of all ages, engage them in the use of computers and technology, and provide the motivation they need to succeed academically.

EXPERIENCE

LCMCOMMODITIES, SOFTWARE DEVELOPER   2010 – present
New York, NY

- Collaborate closely with quantitative analysts developing python projects for the company brokers team and mainly for the research team
- Calculate degree days data (both for cold CDD and heat HDD, at county, state and region level) from NOAA forecast and historical temperatures data using population density (1 km x 1 km, USA territory). Calculations involve: estimate hourly temperature curve, regression to obtain the data for every USA point (1 km x 1 km), multiprocessing on server with 100 cores
- Work on lcmcommodities.com and lcmc-research.com websites with Django, Redis, Django-Channels using websockets, Vue-js on the front-end development. Email templates on lcmc-research.com to send analysis reports to clients. PDF reports automation using LATex
- Build databases for the following data sources and create reports to meet the research team needs: natural gas flow data from Genscape and Reuters, CTFC – Commitments of Traders, Baker Hughes rig data, demand and generation power data from different USA regions, USA gas emissions, oil data from DOE (Departement of Energy), JODI, IEA and Bloomberg
- Managing multiple debian servers locally and on AWS
- Managing databases in MySQL (with replication) and PostgreSQL
- Managing 2T databases

SELF-EMPLOYMENT, SOFTWARE DEVELOPER   2009 – 2010
New York, NY
Worked as a consultant for an energy financial trader. Built a website for trading analysis in Ruby on Rails and Java.

APRA FUEL OIL, SOFTWARE DEVELOPER   2008 – 2019
New York, NY
Assisted with automation projects to collect information of violations imposed by New York City to properties and store it in a database to generate reports that help the company to attract new clientele. I also conducted maintenance of sales and billing systems of the company.

PETROECUADOR, BACHELOR'S THESIS   Mar 2007 – Jun 2008
Quito, Ecuador
Supported systems for decision making in the definition of oil marketing policies, case of study: Oriente Crude.

EDUCATION

MSEd - Computer Science Education
GPA 3.97
Hunter College
New York – New York
2021 – present

BS - Computer Science
Universidad de Cuenca
Cuenca - Ecuador
2002 – 2008

SKILLS

Proficient in:
Linux (debian)
Python
Django
Java
MySQL
PostgreSQL
LATex
Excel - VBA

LANGUAGES

Spanish   Native
English   Professional
French   Elementary