DATA SCIENTIST | BIOINFORMATICIAN

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Data Scientist and Bioinformatician passionate about Big Data, Computer Science, and Machine Learning, looking for new challenges to apply and expand my skills

About me_

• In recent years, I participated in different projects using modern Genomic technologies (NGS), Data Analysis, and Data Science, to obtain novel information that culminated in high-impact peer-reviewed scientific publications

Experience

Institute of Biotechnology, UNAM

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January 2019 - December, 2022

I was part of different research projects, from the beginning obtaining or creating the raw data to the final report or publication. The tasks that I carried out includes the following:

- Management of research projects: participated in the creation of main and secondary objectives and research questions from different projects to obtain novel biological information useful for the scientific community
- Server management (HPC): managed the Laboratory's server, installed Linux operative systems and specific software/packages, avoided server slowdowns, and built secure server environments
- Creation of pipelines: created pipelines to avoid repetitive workflows and make reproducible analysis using bash, python, Snakemake, and Rabix Composer
- Software development: developed several software tools to solve and achieve specific goals using bash, python, Perl, and R
- Creation of plots: using R, Rstudio, Jupyter Notebooks, Excel, Graphpad, and Tableau
- Maintenance of GitHub account (CI/CD): creation and maintenance of GitHub repositories
- Creation of reports/publications: using Markdown and Word, I delivered weekly and biannual reports to the members of the Laboratory. Also, I co-authored peer-reviewed publications that are highly cited in their respective areas
- Presentations to the general public and academic events: participated in scientific dissemination, specialized seminars, and congresses

Appen

DATA ANALYST (PART-TIME)

October, 2016 - December, 2018

I was an independent contractor and participated in several projects that included Data Sourcing and Annotation for different Appen clients (browsers, social networks, etc.). The tasks I performed were the following:

- Data collection and Preprocessing: obtention of raw data and its preprocessing before passing it to the final client or the Machine Learning Department
- Creation of weekly deliverables: for the final client or project manager
- Content translation: from Spanish to English or English to Spanish

Department of Computer Science, CUCEI (UDG)

SOFTWARE ENGINEER (INTERNSHIP)

May, 2016 - July, 2016

I participated in the creation of Scientific Software Development. The tasks that I carried out included:

• Creation of an API: using .NET, I created an API to save patients' records and images

Institute of Biotechnology, UNAM

DATA SCIENTIST | BIOINFORMATICIAN (INTERNSHIP)

January, 2016 - July, 2016

I participated in the research project "Microbiome of Pacific Whiteleg shrimp reveals differential bacterial community composition between Wild, Aquacultured and AHPND/EMS outbreak conditions". The tasks that I performed were:

- · Big Data Analysis: using a HPC, Linux and bash, I analyzed the 16S rRNA information of several samples
- Creation of plots: using R, Rstudio, Excel, and Matlab
- Software development: I developed several tools for ETL data using bash, python and Perl
- Creation of paper: with the data obtained from this internship, I co-autored this paper

Student Coaching

MATHEMATICS TEACHER (PART-TIME)

January, 2014 - December, 2015

As a part-time teacher, I taught middle and high school students math classes to increase their grades or for college admission tests.

- Prepared group and individualized classes and lessons
- · Applied weekly assessments to each student

Education

National Autonomous University of Mexico

MASTER OF SCIENCE (COMPUTER SCIENCE AND BIOCHEMISTRY)

University of Guadalajara

BACHELOR OF SCIENCE (COMPUTER SCIENCE AND MOLECULAR BIOLOGY)

Mexico City, Mexico

August, 2016 - January, 2019

Guadalajara, Mexico

August, 2012 - January, 2016

Soft skills

- Team player who can also work independently with excellent communication skills
- Fast learner and could quickly adapt to new technologies.
- Excellent problem-solving capabilities.
- Can manage a significant workload or several projects from different areas without losing track of them.

Programing Languages, Tools & Bioinformatic skills:

- Python, R, SQL, Bash, Perl, C#, LaTeX, HTML & CSS, JavaScript, High Performance Computing (HPC), Google Cloud, AWS, Linux, Tableau, Docker, Snakemake, Jupyter Notebooks, Rstudio, Django, ASP.NET, PostgreSQL, PySpark, MongoDB
- 16S rRNA profiling, Genome/Transcriptome assembly and annotation, Metagenomics, Metatranscriptomics,
 Viromics

Languages _

- English Full professional proficiency
- Spanish Native