Nicolas Garnica

nicolasgarnicac@outlook.com
+14372552143 Toronto, ON
LinkedIn | Nicolas Garnica

About me

Recent Biomedical Engineering graduate with hands-on experience in molecular biology, cell culture, and bioinformatics. Demonstrated expertise in data analysis and programming. Eager to develop tools for omics' data analysis by combining wet lab work with programming and engineering skills, with a special interest in single-cell data resolution for cancer studies.

Profesional Experience

Portfolio GitHub LInk: Nicolas | Portfolio
Developed multiple projects ranging from image classification with CNNs to motif finding and scRNA-seq analysis

Universidad de Los Andes (Bogota, Colombia) Jan 2017 - Dec 2021

Course Work

Performed multiple molecular biology protocols.(DNA/RNA extraction, PCR, protein quantification) Maintained Vero cell line culture and human lung carcinoma cell line culture with aseptic conditions. Led the development of an agarose hydrogel frame which improved the quantity of tissue spheroid formation per area. Satisfactory completion of undergraduate coursework in biomewdical image analysis, data analysis and bioinformatics.

Uniqlo Toronto, ON. Sep 2022 - Currently

Store Associate

I am the customer service specialist of the store, providing the best and personalized customer service under tight time targets in a fast-paced environment.

Multifox 2000 S.A. Bogota, Colombia Jan 2021 - May 2022

Software Developer

Developed and maintained different modules for the company's main payroll application, adding new functionalities as required by customers, adding Azure support to the back-end and turning the app into a completely web-based application. Technologies: Azure, SQLServer, C#, Python.

Education and Certifications

BEng. Biomedical Engineering
Universidad de Los Andes
Bogota, Colombia

CNNs and RNNs in Python
Udemy - View certificate

Plant Bioinformatics Specialization
University of Toronto
Coursera (Currently)

Udemy - View certificate

Lab Skills

- **Mammalian cell culture** *Vero ccl-81, Human lung carcinoma A549 and human keratinocytes HaCat*)
- **Aseptic technique**
- **Molecular biology** *(PCR, DNA/RNA Extraction, WB)*
- **Lab equipment handling**
- **Biomaterials** synthesis and characterization

Computer Skills

- **Programming:** Python (Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, OpenCV)**, Linux, Docker, GitHub, Azure**
- **Data Analysis:** ImageJ, Image analysis, Bioinformatics, Deep learning for genomics and single-cell transcriptomics

General skills

Proactive and self-motivated
P**roblem solving skills** and **critical thinking**
Exceptional organizational skills
Strong interpersonal skills
English and Spanish fluency