Tayrone Monteiro

Computer Engineer

I have a deep passion for solving biological problems through statistics, programming and data analysis. Also, I have over four years of experience in scientific research. Currently seeking a position in which I can use my solid problem-solving skills.

✉ tayronesm@gmail.com 📱 +55 83 998229901 📍 Patos, PB, Brazil in linkedin.com/in/tayronem ⌗ github.com/tayrone

SKILLS

R · Tidyverse · Python · SQL · Unix · Shell Scripting · Git/Github · Statistics · Machine Learning · Power BI

SOFT SKILLS

Creativity · Critical Thinking · Attention to Detail · Emotional Intelligence · Interpersonal Skills

EDUCATION

MSc in Bioinformatics
Federal University of Rio Grande do Norte
03/2019 - 08/2021   *Natal, Brazil*

Undergraduate Academic Exchange
Milwaukee School of Engineering
08/2015 - 05/2016   *Milwaukee, USA*

BSc in Computer Engineering
Federal University of Paraíba
03/2012 - 12/2017   *João Pessoa, Brazil*

PUBLICATIONS

Full-length paper
The Paulo Freire Digital Library indexing method as a tool for digital fluency
Authors
Santos R., Monteiro T., Brennand E., Silva O.
Journal
Revista Informação na Sociedade Contemporânea, n.1, 2014.

Full-length paper
The interactive television as a device for digital inclusion in higher education
Authors
Brennand E., Monteiro T.
Conference
Colóquio Internacional de Pesquisas na Educação Superior. João Pessoa, Brazil. 2013.

LANGUAGES

Portuguese   English
Native   *Full Professional Proeficiency*

WORK EXPERIENCE

Researcher
Federal University of Rio Grande do Norte
03/2019 - 08/2021   *Natal, Brazil*
Responsibilities and outcomes

- Analyze microarray expression and methylation data of medulloblastoma cancer patients, using R;

- Examine additional attributes, such as co-regulation mechanisms and survival probability, for all cases;

- Produce a scientific paper describing all inspections and results, such as biological markers and their relation to clinical outcomes;

Research Assistant
University of Notre Dame
05/2016 - 07/2016   *South Bend, USA*
Responsibilities and outcomes

- Implemented local and global sequence alignment algorithms, using C;

- Applied these methods to compare genetic information from several bacteria genomes, defining phylogenetic proximity between different species;

Research Assistant
Federal University of Paraíba
08/2013 - 07/2015   *João Pessoa, Brazil*
Responsibilities and outcomes

- Implemented clustering algorithms, such as Mean Shift and Expectation Maximization, using Java;

- Applied clustering methods on bacterial genomic data, resulting in the identification of novel genomic islands. This work evolved to become my senior thesis;

- Managed a relational database, associated with a digital library, using the SQL language;

- Created a graphical user interface model, for an educational software, using a graphic design application (Sketch).