

# Tayrone Monteiro

## Computer Engineer

I have a deep passion for solving real-life problems through data science and have been applying it to biological questions for more than 3 years. Also, I have over five years of experience in scientific research. Currently seeking a position in which I can use my solid problem-solving skills.



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### SKILLS

- R
- Tidyverse
- Python
- SQL
- Unix
- Shell Scripting
- Git/Github
- Statistics
- Machine Learning

### 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 - 02/2017 *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 *Native* English *Full Professional Proficiency*

### 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  
08/2012 - 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).