

## Contact

(11)982233651 (Mobile)  
allyssonallan@gmail.com

www.linkedin.com/in/allyssonallan  
(LinkedIn)  
allysson.dev.br/ (Personal)  
github.com/allyssonallan (Portfolio)  
calendar.google.com/calendar/  
u/0/appointments/schedules/  
AcZssZ2oozTCYhf2J2iuZ8QgcgU7ck  
(Personal)

## Top Skills

Bioinformatics  
Amazon Web Services  
Large Language Model Operations  
(LLMOps)

## Languages

Espanhol (Elementary)  
Português (Native or Bilingual)  
Italiano (Elementary)  
Inglês (Full Professional)

## Certifications

Bioinformatics for Biologists:  
Analysing and Interpreting Genomic  
Datasets  
Generative AI learning plan for  
decision makers  
SAP Data Intelligence for Enterprise  
IA  
Multi AI Agent Systems  
AWS Partner: Accreditation  
(Technical)

## Publications

Haplotypes of single cancer driver  
genes and their local ancestry in a  
highly admixed long-lived population  
of Northeast Brazil  
Origem e dispersão dos humanos  
modernos  
Origin and age of the causative  
mutations in KLC2, IMPA1, MED25

# Allysson Allan

Visiting Professor @ Federal University of Ceara | Omics,  
Bioinformatics, LLM, AI agents  
Fortaleza, Ceará, Brazil

## Summary

I am working with genomics and bioinformatics, among other related areas in my position as a Visiting Professor at the Federal University of Ceará, applying a recent theoretical approach with ancient dna study to advance translational medicine. I had a recent role as Chief Technology Officer at Genie TechBio Inc., co-developing Genie, a Large Language Model for Omics analysis, which simplifies and accelerates omics data interpretation for wet-lab researchers.

## Experience

Federal University of Ceara  
Visiting Professor  
November 2023 - Present (1 year 4 months)  
Fortaleza, Ceará, Brazil

- Use technical skills in biotechnology and bioinformatics to contribute to the Translational Medicine Postgraduate Program at the Federal University of Ceara.
- Conduct research on bioinformatics, human genomics population, human evolution, and medical population genetics.
- Collaborate with colleagues to advance knowledge in the field and enhance the program's curriculum.

Genie TechBio  
Chief Technology Officer  
January 2024 - January 2025 (1 year 1 month)  
Delaware, United States

- Co-founder;
- Developed Genie, an LLM-powered tool for Omics analysis, simplifying data analysis for biologists;
- Led efforts to accelerate biomedical research and empower scientists with newfound data analysis capabilities;
- First prototype delivered in three months;

and WNT7A unravelled through  
Brazilian admixed populations

Revelada origem de mutações que  
causam doenças raras em famílias  
consanguíneas

- Achieved conversation with Genie, enabling researchers to focus on science while Genie handles data analysis.

### Fundação Oswaldo Cruz (Fiocruz)

Bioinformatics Manager

May 2023 - November 2023 (7 months)

Fortaleza, Ceará, Brazil

- Led a creative team in developing genomic panel solutions for diverse clinic conditions, troubleshooting NextSeq2000 and Miseq, and supporting wet-lab operations.
- Successfully obtained approval for 6/6 projects in less than six months, showcasing strong project management skills.
- Collaborated with the team to enhance genomic surveillance and pangenomic tests, contributing to cutting-edge research in the field.

### Farmácias Pague Menos

11 months

Principal AI Lab

September 2022 - April 2023 (8 months)

Fortaleza, Ceará, Brasil

- Led a data-driven team of three developers and two data scientists to develop intelligent solutions for the company.
- Created a near real-time app for key performance indicators and daily insights on revenue sales for 1300+ stores.
- Automated and reprocessed hourly goals for each store to achieve company milestones efficiently.

### Analytics Specialist

June 2022 - April 2023 (11 months)

Fortaleza, Ceará, Brasil

- Developed machine learning models for predictive analytics in a fast-paced retail pharmacy company.
- Implemented data pipelines and large-scale data processing for disruptive products based on ML models.
- Collaborated with cross-functional teams to ensure alignment of ML models with production processes.

### Hospital Israelita Albert Einstein

Data Scientist

September 2021 - June 2022 (10 months)

São Paulo, Brasil

- Developed and implemented WGS/WES DRAGEN-GATK routines in AWS cloud using WDL/Cromwell workflows.
- Managed joint genotyping vcf from large-scale genomic databases and clinical data using pyspark/hail.
- Collaborated on code practices to innovate genomic test processes at Hospital Israelita Albert Einstein.

#### Università degli Studi di Padova

Postdoctoral Research Scientist

September 2020 - December 2021 (1 year 4 months)

Pádua, Vêneto, Itália

- Improving a new method to estimate polygenic risk scores for admixed individuals

#### Universidade Estadual da Paraíba

Bioinformatics Scientist

March 2014 - October 2021 (7 years 8 months)

Campina Grande, Paraíba, Brasil

Handling genomic array data from admixed individuals. Investigating recessive genetic diseases.

#### Hapvida

Data Scientist

May 2020 - August 2020 (4 months)

Fortaleza, Ceará, Brasil

Building the historical, prediction, and prevention squads.

#### Armorial Consultoria

Diretor

June 2019 - August 2020 (1 year 3 months)

Fortaleza

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## Education

#### Universidade de São Paulo

Doctor of Philosophy - PhD, Genetics · (March 2014 - October 2018)

#### Universidade Federal de Pernambuco

Master's degree, Archaeology · (March 2011 - January 2013)

Universidade Estadual da Paraíba

Licentiate and Bachelor of Science degree, Biological Sciences · (July  
2006 - August 2010)