SYSTEMS ENGINEER · R&D ANALYST

Belo Horizonte, MG, Brazil

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Education

Universidade Federal de Minas Gerais

Belo Horizonte, MG

Systems Engineering, B.S.

Aug. 2016 - Dec. 2019

- Merit award for having the second-highest grade within the graduating class of 2019
- · Represented Systems Engineering at UFMG's Career Day (Mostra das Profissões), open to the general community

Universidade Federal de Minas Gerais

Belo Horizonte, MG

ELECTRICAL ENGINEERING, B.S.

Aug. 2013 - Jul. 2016 (interrupted)

- Organized the Autonomous Robots Competition (CoRA) as a member of PET-EE
- · Promoted the study of Engineering and the role of universities in marginalized communities and schools
- Helped organize Ruptura (2015), a yearly event about entrepreneurship and innovation

University of California Berkeley, CA

SUMMER SESSIONS D, 3.85/4.00

Jul. 2014 - Aug. 2014

• Summer courses in Functional Neuroanatomy and Cognitive Science

Coursera Machine Learning (Stanford University, May 2017) • Big Data Specialization (UCSD, Aug 2020 expected)

Skills_

ENACOM

Programming C/C++ • Python • R • Julia • Unix/Linux • SQL • MATLAB • LTFX

Languages Fluent: English, Portuguese • Intermediate: Spanish, Mandarin • Elementary: Vietnamese

Software Tableau Desktop • Power BI • Visual Paradigm • Weka • KNIME Interests Neuroscience • Artificial Intelligence • Assistive Technologies

Experience

R&D Analyst Belo Horizonte, MG

COMPUTER SCIENCE DEPARTMENT, UFMG

Feb 2020 - current

• Developing web crawlers for a research and development project using Python

Data Science Resident

Belo Horizonte, MG

TENBU / COMPUTER SCIENCE DEPARTMENT, UFMG

May 2019 - Dec 2019

Feb. 2019 - May 2019

- · Apply the CRISP-DM methodology to identify business opportunities and solve clients' problems
- Develop data driven solutions using Python, Keras and scikit-learn

Computer Vision Intern

Belo Horizonte, MG

• Document ongoing projects and write scientific papers for submission in Computer Vision journals

- Research state-of-the-art techniques for Computer Vision-related problems
- Develop Proof of Concepts using OpenCV, Keras and scikit-learn

Data Analytics Intern

Belo Horizonte, MG

SOMOS EDUCAÇÃO / APPPROVA

Jun. 2018 - Mar. 2019

- Generate reports from platform usage data
- · Develop and update dashboards containing strategic information for the Customer Success team
- Elaborate, analyze, and study hypotheses of users' behavior for the design of new products

Research Assistant Belo Horizonte, MG

ELECTRICAL ENGINEERING DEPARTMENT, UFMG · CNPQ FELLOWSHIP

Jul. 2017 - current

- Investigated the application of Machine Learning in the recognition of LIBRAS signs
- GUERRA, Rúbia Reis et al. (2018). Facial Expression Analysis in Brazilian Sign Language for Sign Recognition. Anais do Encontro Nacional de Inteligência Artificial e Computacional (ENIAC), p. 216-227.

Quality Assistant Belo Horizonte, MG

AKVOS LABORATÓRIO AMBIENTAL E DE ALIMENTOS

Jul. 2015 - Jul. 2017

- Assist on the Quality Management System, complying with ISO/IEC 17025:2005
- Identify nonconformities and improvement opportunities, and perform audits

March 25, 2020 Rúbia R. Guerra · Curriculum Vitae

Research Assistant Belo Horizonte, MG

COMPUTER SCIENCE DEPARTMENT, UFMG · CNPQ FELLOWSHIP

- Investigated different approaches for the hierarchical classification of Transposable Elements' taxonomy proposed on WICKER, Thomas et al. (2007). A unified classification system for eukaryotic transposable elements. Nature Reviews Genet. 8(12):973-82.
- · Compared standard flat multi-class classification and local hierarchical classification methods for the automatic annotation of DNA sequences

Extracurricular Activities _____

Infrastructure Team Member

Belo Horizonte, MG

Jan. 2014 - Oct. 2015

TEDx UFMG: QUERO SER COMUNIDADE

Jun. 2016 - Nov. 2016

- Plan, organize and maintain the infrastructure of TEDx UFMG 2016
- Deploy and update the event's website

Group Leader Belo Horizonte, MG

Discriminação e Minorias - Práticas na Engenharia (GDM), UFMG

Aug. 2015 - Jul. 2017

- · Research and coordinate discussions around the dynamics, characteristics, and sociocultural contexts of marginalized groups
- · Identify discriminatory practices in the academic environment and in society itself
- Promote awareness and reflections regarding marginalized groups and their daily challenges
- Organized the event "Cadê a Cor, Engenharia?" (2015.12), one of the first social awareness events held the School of Engineering

Student, Software Development Track

Belo Horizonte, MG

STUDENTS TO BUSINESS PROGRAM, MICROSOFT INNOVATION CENTER, PUC MINAS

Nov. 2015 - Dec. 2015

- Software development training using C#, XAML and Azure
- Best Project Award: app ParaCasa, promote accessibility to the National Curricular Base (BNCC)

VolunteerBelo Horizonte, MG

PROGRAMA DE EDUCAÇÃO TUTORIAL (PET) ENGENHARIA ELÉTRICA

Oct. 2014 - Jul. 2016

- Plan and arrange Electrical Engineering-related workshops, fairs and general events
- · Coordinate, define requirements, and identify resources needed for executing the Autonomous Robots Competition (CoRA)
- · Promote the study of Engineering and the role of universities in marginalized communities and schools

Honors & Awards

2019	Oriane Magela Neto's Silver Medal, School of Engineering, UFMG	Brazil
2019	Academic Relevance, XXVII Engineering School Scientific Initiation Week / Knowledge Week, UFMG	Brazil
2018	Academic Relevance, XXVI Engineering School Scientific Initiation Week / Knowledge Week, UFMG	Brazil
2017	Best Business Project Presentation, III iGEM-UFMG Summer School on Biological Machines	Brazil
2015	Best Project, Microsoft's S2B Software Development Track	Brazil

Presentations

XXVII Engineering School Scientific Initiation Week / Knowledge Week, UFMG

Brazil

Undergraduate Presenter

Oct. 2019

• Presented the results of my research on Machine Learning for image classification

XXVI Engineering School Scientific Initiation Week / Knowledge Week, UFMG

Brazil Oct. 2018

Undergraduate Presenter

OCL. 201

 $\bullet \ \ \text{Presented the results of my research on facial expression analysis in Brazilian Sign Language (Libras) for sign recognition}$

II Congress on Innovation and Teaching Methodologies, UFMG

Brazil Oct. 2016

PRESENTER FOR PET-EE

OCT. 2016

• Presented the analysis of a survey on Electrical Engineering students' quality of life

Publications

2019	GUERRA, Rúbia R. Deep Learning for Accessibility: Detection and Segmentation of Regions of Interest	Belo Horizonte,
2019	for Sign Language Recognition Systems, Bachelor's thesis, UFMG	Brazil
2019	ZANON, Giulia, GUERRA, Rúbia R., et al. Development of a Database of Libras' Signs for Machine	Ouro Preto. Brazil
2019	Learning: 3DCNN Case Study , 14º Simpósio Brasileiro de Automação Inteligente (SBAI).	Outo Fieto, Bruzil
2018	GUERRA, Rúbia R., et al. Facial Expression Analysis in Brazilian Sign Language for Sign Recognition,	São Paulo, Brazil
2010	Anais do Encontro Nacional de Inteligência Artificial e Computacional (ENIAC), p. 216-227	Suo Fuulo, Bluzil
2016	CHAVES, Lucas, RODRIGUES, Mateus, GUERRA, Rúbia, et al. Analysis of Quality of Life of Electrical	Belo Horizonte,
	Engineering Students, II Congress on Innovation and Teaching Methodologies, UFMG	Brazil