

Matheus Bitarões de Novaes

Brazilian, single, 29 years old
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Academic Background

- **UFMG - Universidade Federal de Minas Gerais** Masters in Computational Intelligence
Belo Horizonte, Brazil 2020 - 2023
 - Completed a Masters in Engineering focused on Algorithmic Music Generation.
 - Explored the use of Genetic Algorithms and GANs for creating melodies with specific harmonic functions.
 - Published an article on data augmentation strategies to improve the quality of GAN-based musical melody generators.
- **UFMG - Universidade Federal de Minas Gerais** Engineering Bachelor Degree
Belo Horizonte, Brazil 2011 - 2018
 - Systems Engineering Bachelor Degree
 - Bachelor Thesis presented and achieved a grade of 95/100. It was about making a drum using sound and image processing.
- **QUT - Queensland University of Technology** Interchange Engineering Program
Brisbane, Australia 2015 - 2015
 - 10 months studying Engineering in Australia by program Science Without Borders.
 - Learned programming languages such as python, c# e SQL.
 - Role of Project Manager in a team with 8 students with the objective of developing a UAV (unmanned aerial vehicle) using Systems Engineering and project managing methods. At the end of the project, the UAV could perform with 90% of the objectives with success. Demonstration video available in: [this link](#).
- **CEFET MG - Centro Federal de Educação Tecnológica** High School and Technician
Belo Horizonte, Brazil 2008 - 2010
 - Mechatronics Technician.

Professional Experience

- Draft (fka Contentfly)** Back End Software Engineer
Toronto (remote), Canada 2022 - 2023
- Worked on scoping and implementing multiple different projects with the team and product manager.
 - Applied different design patterns and architectures to the codebase to make it easier to test and add new features.
 - Worked with following stack: Node.js, Vue.js, PostgreSQL and mongodb.
 - Worked building an AI content generation platform using GPT networks for various types of content such as blog posts and product descriptions.
- Americanas SA** Back End Software Engineer
São Paulo (remote), Brazil 2021 - today

- Responsive for implementing solutions for enhancing user experience in Americanas' search engine. Americanas S.A is one of the biggest retail companies in South America
- working with following technologies: Java, Springboot, Python, Kubernetes, Docker, Terraform, Solr, Gitlab, AWS Cloud, Google Cloud

Omnilogic SA

Belo Horizonte, Brazil

Full Stack Developer - Squad Lead

2019 - 2021

- FullStack activities, working with Java, Javascript, React, GraphQL, Elasticsearch, Docker, Kubernetes, Scala, SQL, MongoDB
- Responsive for technically leading a squad aimed to maintain and evolve company products

FCA - Fiat Chrysler Automobiles

Betim, Brazil

Global Innovation Analyst

2018 - 2019

- Approval on concurred internal process.
- Responsible for researching, planning, developing, constructing prototypes and Proof-of-Concepts of innovative products according the company global innovation plan.

FCA - Fiat Chrysler Automobiles

Betim, Brasil

Analista Júnior Mopar

2016 - 2018

- Invited to come back to the company due to the good performance achieved on last experience at Fiat.
- Participation on global integration projects and global vehicles developments (on spare parts infrastructure standpoint).
- Important participation on Argentina integration project, which was successfully integrated into LATAM Mopar systems
- Responsible for LATAM Spare Parts Catalog readiness dos.
- Responsible for the population and maintenance of Brazil's accessories catalog.
- Responsible for the Spare Parts Catalog technical assistance for all FCA vehicles built in other regions and sold in Brazil.

ENACOM

Belo Horizonte, Brazil

Internship

2016 - 2016

- Internship working with Matlab implementations in the field of game theory and optimization.

ARCAA - Australian Research Centre for Aerospace Automation

Brisbane, Australia

Work Experience

2015 - 2015

- Thermal cameras fine-tuning for health analysis on crops.
- Research and development of algorithms (in Matlab) for recognition of wildlife in thermal imaging.

Fiat Automóveis

Betim, Brazil

Junior Analyst

2012 - 2014

- Participation on global projects for FIAT - CHRYSLER integration.
- Responsible for the Spare Parts Catalog of models Fiat 500 and Freemont.
- Responsible for the Spare Parts Catalog regarding exhaust, cold start and air filter of all FIAT vehicles.

Metalisa

Belo Horizonte, Brazil

Technician Work Experience

2011 - 2012

- Worked with project development and maintenance.

Abilities and Competencies

- Communication
 - Performed presentations in english during Australia's interchange program.
 - Participated on presentations to journalists while working in FCA's Global Innovation Team.
- Foreign Languages
 - English: Fluent.
 - Italian: Basic (6-month course on FIAT and a business trip to Italy for a workshop).
- International Experience
 - Business trips for workshops in Argentina and Italy for FCA on 2017.
 - Worked remotely for a Canadian company from 2022 to 2023.
- Other Technical Competencies
 - C, C++, C#, Python, VBA, R, Matlab, Java, Javascript, NodeJs, React, Vue, Gatsby, GraphQL, Elasticsearch, Solr, Docker, Kubernetes, Scala, SQL, MongoDB, Azure Cloud, AWS Cloud and Google Cloud
 - Excel Advanced: Dynamic tables, Data analysis, VBA programming.
 - Easy learning on new programming languages.
 - Machine learning and Computer Vision.