



Gustavo Fonseca

I am a very versatile person who has already worked with a wide range of technologies throughout my 8 years career as a Software Developer. Although I have a formal education, I consider myself very self taught, therefore, I'm always willing to learn anything that is required for the job. I'm currently more inclined to *back-end* development, but I also have some experience with *front-end* (mainly SPAs). In respect to the programming languages I'm most familiar with, I have plenty of experience with *JavaScript*, *Python* and *SQL*, but I'm not limited to these languages. Apart from Software Development, I have a good foundation in *Machine Learning & Data Analysis*, and I'm willing to apply it in any of my solutions, if this is aligned with the best interests of my employer.

+55 (51) 997339260
github.com/gmtfonseca

gustavofonseca94@gmail.com
stackoverflow.com/gmtfonseca

TRADITIONAL EDUCATION

2016 – 2019

***System Analysis and Development* — UNISINOS**

- Graduated with high distinction
- Learned how to optimize the software development process
- Volunteered to develop a management system for a school along with 4 teammates

2011 – 2013 (uncompleted)

***BSc Computer Science* — UNISINOS**

- Learned about Data Structures & Algorithms and how to implement them
- Learned how to measure algorithms' speed and space complexity with the asymptotic notation

2009 – 2011

***IT Technician* — IEI**

- Learned how computers work
- First introduction to software development

WORK

Feb 2018 – to date

***Software Analyst* — Fonseca LTDA**

- Worked alone on several applications & tools to automate the company's internal tasks
- Built Single-page & Mobile application to support Financial and Supply Chain Management
- Worked with Python mining and plot libraries to bring valuable products and customers insights
- Worked with VueJS, Node.js, MongoDB, HTML, CSS, JavaScript, Android (Java), TDD (Mocha & Chai), Python, Pandas, Matplotlib

May 2013 – Feb 2018

***Software Developer* — CIGAM**

- Member of a major team, practitioner of SCRUM
- Built solutions related to supply chain management
- Refactored legacy code to greatly improve the speed of many applications
- Worked with Oracle, MSSQL, HTML, CSS, JavaScript, Agile

Mar 2011 – Apr 2013

***Software Developer* — SUNSOFT**

- Part of a 4-member team, helped to build a brand new ERP
- Worked with PostgreSQL, Delphi, Firebird

ONLINE EDUCATION

- **Machine Learning** - Andrew Ng, Stanford University
- **AI & Machine Learning** - AppliedAI
- **Essential Math for Machine Learning** - Microsoft
- **CS50: Introduction to Computer Science** - David Malan, Harvard University

SIDE PROJECTS

- **QuantiSync**: Windows Application responsible for syncing specific local documents to the cloud. Built mainly with Python, wxPython and SharpShell
- **Quantifico**: Single-page Application to visualize insights about products and customers. Created with Node.js, Express, React, Mongoose (MongoDB), HTML, CSS, and JavaScript
- **Microsoft Malware Prediction**: Personal approach to the Microsoft Malware Prediction competition available in [Kaggle](https://www.kaggle.com). Built mainly with Scikit-learn, Pandas, NumPy and Jupyter Notebook

SKILLS

Ascending by proficiency level (lower is better)

- **Software Development**
 - **Languages:** JavaScript (ES5+), Python 3, SQL, PL/SQL, T-SQL, MongoDB, HTML, CSS, Java, C++
 - **Frameworks:** Node.js (Express), VueJS, Mongoose, Android
 - **Others:** REST, Agile (SCRUM), JWT Auth, Test Driven Development, Single Page Applications, Git, Github, Design Patterns, SOLID
- **Data Science & ML**
 - **Libraries (Python 3):** Pandas, NumPy, Scikit-learn, SciPy, Matplotlib
 - **Algorithms:** Linear Regression, Logistic Regression, Naive Bayes, K-NN, SVM, Decision Trees, Random Forests, K-Means, MLP
 - **Others:** Natural Language Processing (TF-IDF, W2V, BOW), Recommender Systems (Matrix Factorization)

FAVORITE BOOKS

- Clean Code: A Handbook of Agile Software Craftsmanship by Robert C. Martin
- Programming: Principles and Practice Using C++ by Bjarne Stroustrup
- Learning How to Learn by Barbara Oakley
- Code Complete: A Practical Handbook of Software Construction by Steve McConnell