Gustavo Fonseca

I am a very versatile developer who has worked with multiple technologies. 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 very good foundation in *Machine Learning* & *Statistical modeling*, and I'm willing to apply it in my solutions, if this is aligned with the best interests of my employer.

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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, 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. 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, Sciki-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
- Nada Easy - Tallis Gomes
- 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