Gustavo Fonseca

I am a very versatile professional 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.

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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 the basics of computer architecture
- Introduced 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 Vue.js, 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

- **Quantifico:** Single Page Application that grants valuable insights on sales and production data. Created with Node.js, Express, Vue.js, Mongoose (MongoDB), HTML, CSS, SCSS and JavaScript
- **Microsoft Malware Prediction**: My approach to the Microsoft Malware Prediction competition available at Kaggle. Built mainly with Scikit-learn, Pandas, NumPy and Jupyter Notebook
- **Replic8:** Lightweight cross-platform backup scheduler. Made with Python 3 and wxPython
- **Arremate:** Cross-platform app to keep track of multiple Facebook auction pages. Built with Electron and Vue.js
- **Nuclojure:** Simple REST API made for educational purposes. Created with Clojure, Compojure, Liberator and Datomic

SKILLS

Ascending by proficiency level (lower is better)
- ***Software Development***
  - ***Paradigms:*** Object-oriented programming (OOP), Functional programming (FP)
  - ***Languages:*** JavaScript (ES5+), Python 3, SQL, Clojure, PL/SQL, T-SQL, MongoDB, HTML, CSS, Java, C++
  - ***Frameworks:*** Node.js (Express), Vue.js, 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)

EXTRA (FAVORITE TECH 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