

PEDRO SOBOTA

SOFTWARE ENGINEER

ABOUT ME

With more than 15 years experience and 12 years in .NET and C#, I have developed for web, desktop, as well as C++/QT in scientific applications, and have helped develop large Data Engineering projects in the Azure cloud. I have led and managed teams of developers in successful delivery of applications in the desktop, web and cloud.

WORK EXPERIENCE

2022 - 2023

Big Data/C# Developer Consultant (1 year, 3 months)

North American IT Consultancy company

I worked in a large Big Data project developing in Spark and C#, in the Azure/Databricks environment. Performed pipeline maintenance and developed new integrations in Scala, one of which a high-volume one (500.000.000 of data points ingested over 6 months). Wrote C# 11 and LINQ to query paged REST services and join data to Data Warehouses, using Newtonsoft.JSON (hundreds of thousands of data points). Developed extensively using the Kafka .NET and Java libraries. Performed Spark computations in a large Data Lake and worked with complex SQL queries in Azure Synapse. Deployed software to Databricks cluster. Developed pipelines in Azure Data Factory. Worked with external tables (blob storage). Developed an algorithm in Spark RDD to conform malformed CSV files. Developed a landing-to-staging algorithm in Spark SQL to de-duplicate and join data across two large Delta tables, using LEFT JOINS. Repartitioned Delta tables. Imported data warehouse data into Delta for analysis. Performed extensive analysis, including graphing, in Spark SQL. Worked extensively with scripting (PowerShell). Worked with Hive tables locally and also worked with JSON Schema and XSD.

I maintained daily communication with the team in Brazil (5 developers) and brand stakeholders in a globally distributed team.

.NET Developer (1 year)

Kantar

I developed in C# and Azure Cloud in data-oriented projects such as TGI (demographic polling). I maintained a large data-processing application for polled data in Windows Forms working with large XML files. I rewrote the TGI processing daemon from scratch in .NET, processing millions of records per semester, and deployed it to production to an Azure VM, running two polling seasons. I also maintained the end user's web application in ASP.NET, wrote Azure Pipelines in PowerShell and created Web Apps.

2021 - 2022



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LOCATION
São Paulo, SP, Brazil

EDUCATION

2017 - 2019

MATHEMATICS

Universidade do Sul de Santa Catarina
29% concluded

2024 - 2026

CYBERSECURITY

Universidade Anhanguera
Ongoing

SKILLS

- C# Programming
- Azure Cloud
- LINQ
- Concurrency and parallelism
- PowerShell
- Unit and integration testing
- gRPC
- Concurrency and parallelization
- Unit and integration testing
- SQL Server
- MySql
- ASP.NET

EXPERIENCE (CONTINUED)

I maintained daily communication with a distributed team of developers across South America and stakeholders.

2020-2020

.NET Developer (6 months)

ESSS

I did .NET development in the .NET Framework 4.6, maintaining an integrative desktop application for fluid simulation (CFD) products, utilizing the Ansys Workbench SDK. Wrote code for a test and build system written in Python and debugged deployments in Jenkins. I worked with XML, performed improvements in the application, fixed the build in Visual Studio and created an application versioning scheme.

2018 - 2020

C++ Developer and Team Lead (1 year, 9 months)

Condor Instruments

In the technological park CIETEC in USP-SP, I worked for a startup company developing C++ desktop scientific software in a small team of developers, which I also led and mentored. We developed in C++/QT and did tests in QTest. I implemented a multithreading version of the sleep wrist device reading routine which could read many devices in parallel. I found a bug in the hardware reading (C code) and it was subsequently fixed. I did investigations in scientific routines to investigate bugs, such as Cosinor (phase alignment), doing many proof-of-concepts in Mathematica. As a team lead, I managed the team's JIRA board, conducted periodic status meetings, did interviewing assignments, and delegated work to developers.

2016 - 2018

Java Developer (1 year, 10 months)

Reamp

I was a Java developer working on DataHub, a backend service for aggregating and transforming data from API sources. I also created some data workflows in Knime Analytics. I also maintained a Postgres database and worked in a Ruby on Rails application, which I containerized in Docker.

2014 - 2016

Backend Developer (1 year, 4 months)

Seepix

I developed backends for Digital Signage systems in PHP and Python. I developed a Python backend task processing system from scratch, ingesting and encoding videos (integrating with ffmpeg) using JSON and uploading the files to Amazon S3. I developed a PHP SOAP webservice ingesting 20-50 messages per second from displays deployed in the field; improved scheduling algorithms; developed a new version of the CMS in CodeIgniter and AngularJS; deployed applications to remote Linux servers via ssh.

EXPERTISE

- Software Design
- Clean Code
- Functional Programming
- Continuous Integration

LANGUAGES

- Portuguese (native)
- English (fluent)
- Spanish (beginner)

EXPERIENCE (CONTINUED)

2013 - 2013

.NET Web Developer and Team Lead (8 months)

Akayou

I was engaged as a consultant to help build a team of programmers to build a web product (website creator) hosted on AWS. I triaged candidates and performed technical interviews. Developed a backend in C# and led the team to develop the landing page in Node.js. I created infrastructure in AWS (S3, RDS, Route53, EC2) and managed deliveries and maintained regular stakeholder meetings, delivering initial versions of the product in production.

2011 - 2013

.NET Web Developer (2 years, 1 month)

TônicaMix

I created the website for HBuster, an electronics company, in ASP.NET MVC, featuring dynamic product and category displaying, deploying it to production. I also developed three websites in ASP.NET MVC: Bridgestone, Abbott Humanizar, and Relance. I developed a client database import and export routine from SQL Server for Iguatemi One - CRMALL in .NET (C#). I also developed a graphical game in JavaScript and HTML5 Canvas for deployment on Facebook.

2010 - 2011

.NET Developer Consultant (2 years)

Tech4B

I worked as a consultant porting a backend application written in Visual Basic to C#. The application ran and aggregated outputs of multiple code static analysis tools in multiple languages (FXCop, FindBugs, C and ABAP validators, etc.) and produced and output statistics in reports. I performed the relational database modeling (SQL Server) and also developed in ASP.NET with concurrent AJAX a front-end website. The application was deployed in production and ran jobs for clients such as Embraer and Porto Seguro.

2008 - 2010

.NET Developer (2 years)

LabOne Systems

At LabOne, I initially developed a playlist editing functionality for the video player software, adapting it to improve its object-orientation after feedback from my leadership. I subsequently load-tested the player application using Apache JMeter, presenting a report of results to my leadership. I then integrated the MedialBox framework, in .NET, in web applications, which performed media ingestion, transformation and distribution tasks. I helped program the video portal Festival do Minuto in ASP.NET, including its Admin website; programmed a royalties calculation system for UBC (Brazilian Union of Composers) in ASP.NET MVC; and developed calculated end-user reports.

EXPERIENCE (CONTINUED)

2005 - 2008

.NET Developer (2 years, 6 months)

SBS Consultores

I was responsible for rewriting the Hospitalar Pharmacy Medical Dose system in .NET. I worked from specifications and rewrote the application in Windows Forms, in three tiers (UI, Model and Data Access). I designed a configuration window using XML to persist generic configuration parameters. The solution had about 20.000 lines of code and an NUnit test suite was created containing over 100 tests. The application utilized .NET dynamic loading to achieve database vendor-agnostic data storage (SQL Server, MySQL). It was also experimentally tested on Linux using Mono.

After finishing it, I worked on a data initiative interfacing with the company's Blood Bank software, by consuming its data using Microsoft SQL Server Transformation Services and aggregating a cube in Analysis Services. Experimentally, Windows Workflow Foundation was also employed to design a workflow-oriented version of the application.

2003 - 2004

ASP/.NET Developer (1 year, 6 months)

Versifico Tecnologia

I was hired to developed an ASP CRM web application for a governamental client. I developed back-end functionality for multiple sectors like warehousing, accounting, and equipment procurement and front-end (HTML and JavaScript) for forms validation and rendering of official documents like payment forms.

I also developed a prototype mobile Windows CE CRM application using Visual Basic .NET, subsequently porting it to C#, containing signup and data listing forms.

2002 - 2002

HTML Developer (1 year)

Tesla Tecnologia

I developed HTML frontends for e-commerce websites of local brands. I also developed JavaScript validation forms and, subsequently, ASP code integrated to Access and SQL Server for saving customer data into the database. I also manipulated CSS and wrote SQL code.

REFERENCES

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