Joshuan Jimenez

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Skills

Git, Python, Java, Oracle SQL, C#,. NET, HTML, CSS, JavaScript, React, Anaconda, Algorithms & Data Structures, Natural Language Processing, Artificial Intelligence, Linux, Agile

Experience

.NET Developer – SIMTEC Silicone Parts LLC (April 2020 – Current)

- Develop websites that use data from an Oracle database to present SIMTEC's data which includes but is not limited to production rates, finances, equipment status, and engineering tasks

- Develop websites with .NET framework, C# for backend, CSS, HTML, and JS

- Develop code in Python for standalone projects such as customized motion detection to alert and record when presses malfunction

- Write PowerShell scripts for System Admin tasks such as parsing through the Active Directory to scan for accounts that might need to be updated

- Manage Windows Small Business server while ensuring proper access and permissions are assigned to the correct employees within the organization for file share, email, and remote access

- Responsible for system administration such as creating and maintaining user accounts, troubleshooting systems during failures, and revising policies for security

- Maintain KUKA robotic systems to automate processes on the production floor which includes structuring the programming and troubleshooting for appropriate movements that might need calibration

Research Assistant – Florida International University (COGNAC Lab) (April 2020 – December 2021)

- Worked on coding tasks provided by mentor regarding Natural Language Processing and Machine Learning

- Reviewed, researched, and wrote academic papers on topics such as Semantic Role Labeling, Semantic Analysis, and Event Extraction

- Worked on a written survey on Semantic Role Labeling systems

- Reimplemented an SRL system devised by professor where text is parsed and given labels based on the written context and content

Projects

Custom Motion Detection – Python App for Work

- Created an application for motion detection to record key moments of a press cycle which would automatically capture certain frames necessary in order to be used for analysis when issues arise

- Designed interface using PySimpleGUI python library

- Used CV2 library to record and detect motion using an external camera

StockX Predictor – Python Application

- Worked on an application that predicted price movements in the stock market based on two popular averaging methods in addition to LSTM to help regulate how much information is retained and thrown away

- Observed Tesla's movements using LSTMs and Deep Neural Networks, which helped do so accurately with a minimal margin of error

- Used Alpha Vantage api in order to pull latest info regarding a stock, such as open price, close price, and days requested from the API

- Used Tensorflow, SKLearning, pandas, and matplotlib libraries to help with cleaning, processing and demonstrating the data/results

- Written in Python on Jupyter notebook to help with testing and writing of the code

JTLEX – Java Application for Research

- Worked on a timeline extraction proposed by a PhD student at FIU with the intention of taking text in JSON format with annotations to then convert them into TimeML format

- Worked on parser for JSON files with annotations to identify the different classes and entities that can be in a given piece of text

- Developed adapter to convert JSON annotations into appropriate TimeML features (categories such as events, locations, time, etc.)

- Collaborated in group projects building an Agile workflow using SVN, Eclipse for Java, and Trello

Education

Florida International University – Miami, Florida
Fall 2021 Master of Science in Computer Science
Spring 2021 Bachelor of Science in Computer Science

Miami Dade College – Miami, Florida
2019 A.A Degree in Computer Science