
Skills

Git, Python, Java, Oracle SQL, C#, KUKA Programming Certified, NET, HTML, CSS, JavaScript, React, Anaconda, Algorithms & Data Structures, Natural Language Processing, Artificial Intelligence, Linux, Agile, Windows Servers, Powershell, Office 365, IQMS (ERP), AD Directory Management, DNS, DHCP, Virtualization, Backup Recovery

Experience

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

- Develop websites that use data from IQMS (ERP System) Oracle database to present SIMTEC's data
- Develop websites with .NET framework, C# for backend, SQL for data pulls, CSS, HTML, and JS
- Develop websites/dashboards that showcase production rates, cycle times, and rejection rates
- Work with engineering and quality teams to showcase inspections failed, MRB's, and CAPA's as well as all related documents and documentation in easy format on dashboards
- Troubleshoot and debug websites/dashboards to account for new cases or user error
- Improve efficiency of existing code by analyzing key sections and reconfiguring as needed
- Develop code in Python for standalone projects such as customized motion detection to alert and record when presses malfunction
- 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
- Write Powershell scripts for basic System Admin tasks such as Folder redirect configurations, DLL registrations, and AD Directory management
- Responsible for ensuring network security and IT infrastructure are maintained so all operations are running as optimal as possible
- Manage migrations and upgrades to systems, such as Office 365 migration, network redesign, and ERP System upgrades
- Manage multiple instances of Windows Server 2016 on Hyper-V servers through virtualization
- Responsible for backing up servers and archiving sensitive data in case of failures or need to perform restorations
- Be able to lead IT projects with other departments as necessary, such as implementing new modules for ERP system

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