
Skills

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

Education

Florida International University
Graduated Fall 2021
Master of Science in Computer Science

Florida International University
Graduated Spring 2021
Bachelor of Science in Computer Science

Miami Dade College
Graduated May 2019
A.A Degree in Computer Science

Projects

DOOMed AI – SparkDev

- Worked with team to create an AI that can play DOOM, a 2D-style graphic shooting game
- Worked on the neural network for the AI to learn and adapt to custom scenarios including, navigating through a maze, or learning how to go down a corridor to reach an end-goal while killing enemies on the way
- Utilized Python using Tensorflow and Google Collab to train the model for diverse situations

StockX Predictor – Python Application

- Worked on an application that makes predictions about price movements in the stock market based on two popular averaging methods and 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 the days requested from the API
- Utilized 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 in text that is JSON format with annotations to then convert them into another format known as TimeML
- Worked on parser for JSON files with annotations to be able to identify the different classes and entities that can be in a given piece of text
- Developed adapter in order to convert JSON annotations into appropriate TimeML features (categories such as events, locations, time, etc.)
- Worked in group with Agile workflow using SVN, Eclipse for Java, and Trello where we collaborated daily, had weekly Sprint meetings, and would go over progress of the project to assess next steps in the project

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
- Camera records certain segments after detecting motion based on user inputs made on GUI (amount of time to record, delay timer)
- Designed interface using PySimpleGUI python library
- Used CV2 library to record and detect motion using an external camera

Experience

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

- Develop websites that use data from an Oracle database in order to present the company's data
- Websites developed with .NET framework, C# for backend, CSS, HTML, and JS
- Also developed code in Python for standalone projects such as customized motion detection
- Write PowerShell scripts for System Admin tasks such as parsing through the Active Directory to scan for accounts that might need to be updated
- Involved in managing servers (email server, file share directories) and ensuring proper access is given
- Responsible for some System Admin responsibilities such as creating and maintaining user accounts, troubleshooting systems during failures, and revising policies for security
- Working with KUKA robotic systems to automate processes on the production floor by structuring the programming side of it and checking for appropriate movements that might need calibration

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

- Work on coding tasks provided by mentor regarding Natural Language Processing and Machine Learning
- Observed and help mentor as they work on their Doctoral program in terms of paperwork, coursework needed, and how to conduct research
- Review, research, and write academic papers regarding topics such as Semantic Role Labeling, Semantic Analysis, and Event Extraction
- Working 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 different that exist in the text