

## SKILLS

Coding: Java | Python | PySpark | Javascript | SQL | HTML | CSS | C++ | BASH | PowerShell

Operating Systems: Linux (Ubuntu 18.04, Linux Mint 18, Fedora 32) | Windows (7 & 10) | Mac OS X (High Sierra, Mojave)

Technologies/Environments: Git | GitHub | Hadoop | Hive | Kafka | Azure | Databricks | AWS | SQLite | Node.js | Eclipse IDE | IntelliJ IDE | Visual Studio | MySQL 5.X | SQL Server 2012 | Tableau | Bootstrap | ASP.NET MVC | JIRA

## PROFESSIONAL EXPERIENCE

### **Cognizant - Artificial Intelligence & Analytics Data Engineer**

June 2021 - Present

- Responsible for adding new features to internal KPIs and improving existing features by updating old code to now use PySpark to take advantage of PySpark's built-in improvements while moving the existing data into Hive Storage to allow for quicker execution and lookup using the Agile development methodology.
- Completed Demographic Analysis and Churn Analysis of various market sectors and presented the resultant dataset to relevant teams.
- Developed a Twitter Streaming Application that allows you to stream the most recent tweets from Twitter Users. The Tweets are then analyzed using Kafka to take in the data and see what topics Users are tweeting about by finding the most frequently used hashtag in a thirty second window. The Application is also able to see whether or not the User was active inside that thirty second window.

## PROJECTS

### **Jeopardy Discord Bot**

- Created a Discord Chat Bot with Javascript that is able to play a game of Jeopardy inside a Discord server. This Project was a look into how to deal with Asynchronous and Synchronous data. I made the Client requests to the Bot Asynchronous which allows the Client to be able to ask for help from the Bot should they need at any time otherwise the Client would have to wait for the Bot to resolve the Promise before the Bot could respond which could be a frustrating experience for the Client.
- I wanted to incorporate an API so I worked with two API's called Discord.js and jService. I was able to pull Jeopardy questions from jService while Discord.js helped me interface with Discord. The project also made use of my database skills in order to keep track of users' individual scores as well as a server leaderboard using SQLite.
- Project: [tcromack.github.io/Jeopardy](https://tcromack.github.io/Jeopardy)

### **Fantasy Football Stats Database & Website Application**

- Created an ASP.NET MVC Web Application that allows you to search for football players and their fantasy football stats from a Relational Database. The database was created using MySQL and then creating Entity Framework Models in order to use the database with MVC's Controller. Once the project was working on my Local Host I deployed the database to a server using MS SQL and the web app was then deployed to my school's web server.
- Website - [http://citelms.net/Classes/Database/2019Fall/Tyler/V\\_PlayersWithStats](http://citelms.net/Classes/Database/2019Fall/Tyler/V_PlayersWithStats)

## EDUCATION

B.A. in Computer Science, B.A. in Computer Information Technology and Security

*Elms College, Chicopee, MA*

*Honors: High Honors, GPA 4.0*