

# Jacob T Johnson

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## SUMMARY

Junior Python and C++ developer graduating from Texas State University in August 2022 with a Bachelors degree in Computer Science.

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## SKILLS

**Languages:** Python, C++, Java

**Backend:** SQL, CouchDB

**Software Engineering:** Agile, SCRUM, Docker, Git

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## PROJECTS

### Live Auction Player Draft Discord Bot

October 2021 - January 2022

- Created a 'Live Auction' discord bot to run and automate the player draft for the RD2L Dota 2 League.
- Worked collaboratively with an experienced industry software developer and employed common industry software engineering practices.
- Built with python and various python libraries including discord.py, pytransitions, and asyncio.
- Required implementation of specifications from the league Administrators, successful deployment on the draft day.

### All-Star Game Discord Bot

June 2021

- Created a discord bot using the discord.py library to run and organize the 'All-Star' match for the PST division of the RD2L DOTA league.

### Elo Ranking and Prediction Program

June 2020 - July 2020

- Created a C++ program that determines and assigns an Elo value to teams based on the results of a team's cumulative matchups against other teams, then predicts the winning percentages in future matchups.

### Predicting the Scoring Margin of NBA Games using Machine Learning

October 2021 - December 2021

- Worked collaboratively with 3 people to build an ML model that attempted to predict the final point margin of upcoming NBA games based on a given team's recent results.
- Built with python and various python libraries, such as nba.py, pandas, seaborn, and scikit-learn.
- Model training and testing was accomplished by taking a rolling average of a team's previous 15 games and attempting to use that data to predict the upcoming point spread of the next game.

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## EDUCATION

### Bachelors of Science in Computer Science

Minor in Applied Math • Texas State University • San Marcos, TX • 2022

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## COURSEWORK

### Computer System Security

Texas State University • Attack Prevention, Vulnerability Detection, Network Scanning

### Machine Learning

Texas State University • Problem Solving, Applied Statistics, Python

### Computer Vision

Texas State University • Image Processing, Facial Recognition, Motion Tracking, MATLAB

### Data Structures and Algorithms

Texas State University • Teamwork, C++

### Software Engineering

Texas State University • Software Design, SCRUM, Agile