

# Cole Fisher

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## EDUCATION

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**Western University (UWO)**, London, Ontario, Canada

2013 - 2017

- Hon. BSc – Honors Specialization in Computer Science with distinction
- Programming experience: Python, Java, C++, R, JavaScript, jQuery, SQL, VBA
- Computer Science average: 88%
- Dean's Honor List (2013, 2014, 2015, 2016, 2017)

## WORK EXPERIENCE & PROJECTS

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### Sacramento Kings

Spring 2018

*Basketball Analytics Intern*

- Assisted in the planning and execution of the Kings' analytics large-scale database.
- Wrote web-scraping scripts to gather and clean large datasets necessary for data analysis.
- Took a lead role in the development of the Kings' proprietary 2018 Draft web app that the front-office consulted throughout the entire draft process.
- Used machine-learning techniques to objectively grade NBA players on the common scouting metrics (ability to score, rebound, cut, defend, etc.) from box-score, play-by-play and spatio-temporal tracking data.

### Toronto Raptors

Summer 2017

*Basketball Operations Intern*

- Led the logistical planning and execution of all 2017 draft workouts and the 3-day free agent mini-camp.
- Completed several tasks for the Basketball Operations staff, including:
  - Programs that scrape NCAA game data and NBA game data daily
  - A database that aggregates a player's many IDs (ESPN, NBA.com, basketball-reference, sports-reference) in one place to ensure proper data is being scraped/queried.
  - A G League stats database to facilitate analytical decision making regarding G League prospects.
- Worked closely with the analytics staff to create a linear regression model that predicts NBA 3FG% based on NCAA statistics. The final paper can be provided upon request.

### G League to NBA Player Predictor – [www.gleaguetonba.com](http://www.gleaguetonba.com)

December 2017 - Present

- Created a web application to help users accurately predict future NBA success for current G League players.
- Developed alongside Cole's Regress, Cluster, Classify (RCC) methodology, a machine learning approach to domain → domain predictions.
- Uses python's scikit-learn library to perform regression, clustering, classification and k-nearest neighbors.
- Classifies a G League player as a certain G League role and provides three NBA player comparisons who have similar stats to the G League prospect's projected NBA output.

### CoinRoster.com

January 2018 - Present

*Backend Web Developer*

- CoinRoster is a daily fantasy sports website based out of Toronto that uses Bitcoin as its currency.
- Responsible for automating the creating/live-scoring/settling processes for all fantasy sports contests.

### NBA Trade Checker Website

August 2017 - Present

- Created a website to help NBA teams and casual fans understand if a proposed trade is conceivable.
- Demonstrates an advanced understanding of the 2017 CBA, specifically the restrictions and exceptions that impact NBA trades.
- It is not yet finished – there are many features I wish to add and some CBA restrictions haven't yet been implemented.
- Uses python's flask framework, codebase available @ [github.com/cfisher5/trade\\_machine](https://github.com/cfisher5/trade_machine)

### UR-Channel Broadcasting Company

Summer 2016

*Junior Web Developer*

- Aided in the development and launch of urshow.tv, a web-based television network featuring exclusive content on celebrity channels.
- Focused on the functionality and design of the website using JavaScript and jQuery.

## OTHER ACTIVITIES & INTERESTS

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**Israeli Defense Forces (IDF)**, Israel

October 2012

- Completed two months of IDF basic training, which required learning basic army procedures, the Hebrew language and army style discipline.

**Alpha Epsilon Pi Fraternity**, London, Ontario, Canada

2013 - 2017

- Active and responsible member of the AEPi fraternity in London.
- Consistent participation in the fraternity's philanthropic ventures.