

# Jacob Tran

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## Work Experience

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### Big Compass | Software Consultant

Jun 2019 – Present

#### Disney – Contractor

Jul 2019 – Present

- Processed, identified, cleaned and reconciled payment processor data in Software AG WebMethods. Streamlined CSV, Excel and non-standardized data files to Snowflake database for future business use.

## Certifications

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- AWS – Certified Solutions Architect (Associate)

Aug 2019

## Projects

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### Universal Custom Video Playback Speed (Chrome Extension)

Oct 2019 – Present

Personal problem / project

JavaScript

- Currently developing a Google Chrome extension to allow for custom video speed (i.e. 0.49x, 1.33x speed) on the majority of HTML based video players. To be released in the Chrome store.

### Visual Tracking Analysis | Data Lead

Sep 2018 – May 2019

Senior Project for Northrop Grumman

Python, PyTorch, Keras, Tensorflow, OpenCV

- As the data lead, I was responsible for evaluating the accuracy of different object tracking/detection algorithms for live and offline video feeds. Contributed to the implementation and design of these algorithms.
- Analyzed various deep learning models to identify and detect moving objects in videos. Compared the accuracy and efficiency of modern models and gave recommendations on recurrent neural networks for object identification and detection.
- Improved performance of vehicle detection to 93% accuracy compared to last year's team at 84%.

### “PlayerKnown’s Battlegrounds”

Jan 2018 – May 2018

Project for Data Mining Course

Python, Jupyter Notebook, scikit-learn

- Mined data from the popular video game, PlayerUnknown's Battlegrounds. Designed an in-depth survival guide pertaining to giving players the best tactics for surviving longer, managing weapons and planning path of travel.
- “Big Data” where information from over one million data points were mined.

## Technical Skills

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**Languages** Python • C++ • Java • JavaScript • NodeJS • SQL • HTML/CSS • Matlab • Scala • Snowflake

**Software Tools** GitHub/Git • AWS • WebMethods • Travis CI • Tableau • Spring Framework • Splunk

**IDE/Text Editors** IntelliJ • Vim • Nano • Visual Studio • Anaconda/Jupyter Notebook

## Education

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### University of Colorado Boulder

Aug 2015 – May 2019

- Bachelor of Science, Computer Science
- Major GPA: 3.6
- GoldShirt Scholarship
- Cumulative GPA: 3.2