# Jacob Tran

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## Education

**University of Colorado Boulder**                                                                               **May '19**

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

## Work Experience

**Big Compass  |  Software Consultant**                                                         **Jun '19 – Aug '20**

**Disney - Data Engineer**

Streamlined and cleansed different payment processor data into a standardized format. Allowed the client to run analysis on all payment processors with ease.

**Disney - Developer**

Designed an automated system to report the relationship between supervisor and staff.

**Developer**

Created a universal dashboard service for our clients to get real time data about their API usage, cost predictions, core utilization and much more within Mulesoft 4.

## Personal Projects

**ProseAlign**                                                                                                    **Oct '19 – Feb '20**

Global word-level sequence alignment

Designed an algorithm to align two different transcriptions of Harry Potter to find differences in dialect. Current char-level sequence alignment algorithms are too slow for larger text. By using word-level alignment you can find the word in which the sequence broke and then run char-level alignment to find the broken segment.

**Universal Custom Video Playback Speed**                                               **Oct '19 – Dec '19**

Personal Problem

Created a Google Chrome extension to allow for custom video speed (i.e. 0.49x, 1.33x speed) on most HTML based video players.

**Visual Tracking Analysis**                                                                           **Sep '18 – May '19**

Senior Project for Northrop Grumman

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%.

## Technical Skills

**Languages**   Python • Java • JavaScript • C++ • SQL • HTML/CSS

**Software Tools**   GitHub/Git • AWS • WebMethods • Tableau • Snowflake DB • Splunk

## Certifications

**AWS**   Certified Solutions Architect Associate                                                            **Aug '19**
**Boomi**   Professional Integration Developer                                                                 **Jun '20**