

# Jacob Tran

## Work Experience

### **Big Compass | Software Consultant**

**Jun '19 – Aug '20**

#### **Disney - Data Engineer**

Streamlined and cleansed different payment processor data into a standardized database format within Snowflake. This allowed the client to run analysis and model predictions on all incoming funds with ease.

#### **Disney - Developer**

Designed an automated system to report the hierarchical relationship between employees and supervisors.

#### **Developer**

Created an inhouse universal dashboard service for future clients to get real time data about their API usage, cost predictions, core utilization and much more within Mulesoft 4 to gauge their return on investment.

## Technical Projects

### **ProseAlign**

**Oct '19 – Feb '20**

Personal problem, global word-level sequence alignment - Python

Designed an efficient and fast algorithm to align two large bodies of text. Current character-level sequence alignment algorithms are too slow for larger text. By using word-level alignment followed by strategic character-level alignment, we can greatly improve performance and efficiency.

### **Universal Custom Video Playback Speed**

**Oct '19 – Dec '19**

Personal problem - JavaScript

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**

College senior project, for Northrop Grumman - Python

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 • XML

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

## Certifications

**AWS** Certified Solutions Architect Associate

**Aug '19**

**Boomi** Professional Integration Developer

**Jun '20**

## Education

**University of Colorado Boulder**

**May '19**

Bachelor of Science, Computer Science

Major GPA: 3.6 - Cumulative GPA: 3.2