Jacob Tran

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Work Experience

Big Compass | Software Consultant   **Jun 2019 – Present**
Disney – Contractor (Webmethods (Java-based), Snowflake DB, AWS)   **Jul 2019 – Present**

- ETL engineer - Streamlined CSV, Excel and other non-standardized payment processor data files to Snowflake database. Responsible for standardizing many unique payment processor's data into one conformed database for future business use.

Certifications

- AWS – Certified Solutions Architect (Associate)   **Aug 2019**

Projects

ProseAlign   **Oct 2019 – Present**
Global word-level sequence alignment   Python

- Aligns Vietnamese translation of Harry Potter with a Google speech-to-text transcription of its corresponding Audiobook. Will be useful for future language learning tools.
- Currently char-level sequence alignment (Needleman-Wunsch) is to slow for larger text. By using word-level 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 2019 – Dec 2019**
Personal problem / project   JavaScript

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

Visual Tracking Analysis   **Sep 2018 – May 2019**
Senior Project for Northrop Grumman   Python, PyTorch, Keras, Tensorflow, OpenCV

- 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

Languages   Python • C++ • Java • JavaScript • SQL • HTML/CSS
Software Tools   GitHub/Git • AWS • WebMethods • Travis CI • Tableau • Snowflake DB • Splunk

Education

University of Colorado Boulder   **Aug 2015 – May 2019**

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