Jacob Tran

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Work Experience

Big Compass | Software Consultant   **Jul 2019 – Present**
- Software AG WebMethods Engineer for a large media and entertainment company. Moved, cleaned and reconciled GB of data to Snowflake for BA use.

Certifications

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

Projects

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

Languages	Python • C++ • Java • JavaScript • NodeJS • MySQL • HTML/CSS • Matlab • Scala • Snowflake
Software Tools	GitHub/Git • AWS • WebMethods • Travis CI • Tableau • Spring Framework
IDE/Text Editors	IntelliJ • Vim • Nano • Visual Studio • Anaconda/Jupyter Notebook

Education

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

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

Relevant Coursework

Data Structures (C++)	Algorithms (Python)
Object-Oriented Analysis and Design (Java)	Artificial Intelligence (Python)
Data Science (Python)	Data Mining (Python)
Programming Workshop (C++)	Database Systems (SQL/NoSQL)