JOSUÉ J. ALFARO

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Education

The University of Texas at Austin 08/2018 - 05/2020
M.S. in Computer Science
GPA: 3.8 / 4.0
Relevant Courses: Natural Language Processing, Deep Learning, Math in Deep Learning, Grounded Natural Language Processing

The University of Texas at Austin 08/2013 - 05/2017
B.S. in Electrical and Computer Engineering
GPA: 3.7 / 4.0
Relevant Courses: Data Structures, Algorithms, Operating Systems, Concurrent and Distributed Systems, Computer Architecture

Experience

Strangeworks 04/2019 - 09/2019
Software Engineer Intern
Tech Used: Go, Python, mySQL, Docker, Kubernetes, Google Cloud, Git
- ↦ Developed REST API to interact with customized Jupyter Notebooks
- ↦ Deployed a customized JupyterHub on GCP

Honest Dollar 09/2017 - 09/2018
Software Engineer
Tech Used: RxJava, Spring, MongoDB, Git
- ↦ Implemented reactive microservices (with REST API)
- ↦ Developed infrastructure for mass migration onto new platform

Goldman Sachs Group, Inc. 06/2016 - 08/2016
Software Engineer Intern
Tech Used: Java, Spring, Elasticsearch, Angular 2
- ↦ Developed internal web application with faster retrieval of data and an improved user experience for the Realty Management Division
- ↦ Developed a REST API to allow front-end consumption of data

Lenovo Group Ltd. 05/2015 - 12/2015
Software Development Intern
Tech Used: Java, SAS Analytics
- ↦ Developed web crawler to download consumer data from retail site
- ↦ Labeled Spanish consumer data for binary classification

Projects

Semantic Parsing with Encoder-Decoder Model
- ↦ Developed seq2seq model for translating a Geoquery dataset (Zelle and Mooney, 1996) into Prolog formulas
- ↦ The model consists of bidirectional LSTM encoder-decoder with bilinear attention and scheduled sampling, achieving 79% token-level accuracy and 62% denotation match

Teaching an Agent to Drive a Racecar with Imitation Learning
- ↦ Implemented convolutional deep neural network to complete a racing lap
- ↦ Extended imitation learning by incorporating Dataset Aggregation method

Sentiment Analysis on Rotten Tomatoes Data
- ↦ Implemented 8-layer LSTM Neural Network with trained GloVe word vectors
- ↦ Used batching, Adam optimizer, Cross Entropy loss to achieve 78% accuracy

Skills

Languages Python, Java, Go, C++, Rust, C#
Tools Vim, Git, Travis CI, Splunk
Clouds Google Cloud Platform
Frameworks Pytorch, Keras