

José Luna

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EDUCATION

University of California, Berkeley

B.A., Computer Science; 2019

EXPERIENCE

Vault Prep, Inc.

Los Angeles, California

Tutor

Feb 2022 – Present

- Instruct high school students in topics including calculus, computer science, Spanish and ACT preparation
- Infuse teaching with enthusiasm, novel perspectives, and a focus on fundamental learning skills

Facebook, Inc.

Menlo Park, California

Data Engineer

Sep. 2019 – Jan. 2021,

May 2018 – Aug. 2018

- Developed efficient and scalable pipelines to transform terabytes of raw logs into useful core datasets
- Automated data quality checks and anomaly detection to ensure the integrity of these datasets
- Collaborated with SWE partners to ensure consistent and complete logging
- Designed and built STAR schema data models for the Supply Chain Engineering team
- Worked with PM's and Data Scientists to establish key metrics for Supply Chain products
- Built real-time interactive dashboards to track and analyze these key metrics

Fox Networks Group

Los Angeles, California

Data Science Intern

June 2017 – Aug. 2017

- Performed analysis and visualization of large datasets to improve and streamline business decisions
- Utilized tools for data science (Python libraries, SQL), web development (Javascript, HTML/CSS), and Palantir's suite of data technologies (Foundry, Contour, Slate)
- Projects:
 - Transformed unprocessed billion-row datasets from Palantir's data lake into clean, ingestible tables, and automated the job to be performed daily.
 - Generated real-time interactive web dashboards to be used by Fox executives to explore TV show rankings over time
 - Built a mathematical model in Python to predict future IT project costs

PROJECTS

Convolutional Neural Networks for Alzheimer's Detection:

Spring 2019

- Built an ensemble of Deep CNN's to detect Alzheimer's disease from brain MRI's
- Performed transfer learning on pre-trained DenseNet models in PyTorch
- Incorporated oversampling and cost-sensitive learning to alleviate data imbalance

Markov Model for Part-of-Speech Tagging:

Fall 2018

- Trained a maximum-entropy Markov model for part-of-speech tagging
- Coupled a multi-class logistic regression label predictor with Viterbi decoding
- Created a rich feature representation using word embeddings

Seq2Seq Chatbot

Fall 2018

- Developed a chatbot capable of engaging in realistic conversation
- Implemented an LSTM-based sequence-to-sequence model in Keras
- Trained the model on movie subtitle data from the Cornell Movie-Dialogs Corpus

SKILLS

- Strong proficiency in Python and SQL
- Experience with Java, Processing, C, JavaScript, HTML/CSS, Scheme
- Fluent in English, Spanish, and conversational French
- Experience building websites using ReactJS and NodeJS
- Knowledge of Artificial Intelligence and Machine Learning
- Familiarity with deep learning frameworks including PyTorch and Keras