

# José Luna

2760 Piantino Cir, San Diego, CA, 92180 | (916) 601-2479 | joseluna@berkeley.edu

## EDUCATION

---

### University of California, Berkeley

*B.A., Computer Science; 2019*

## EXPERIENCE

---

### Vault Prep, Inc.

*Tutor*

**Los Angeles, California**

*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.

*Data Engineer*

**Menlo Park, California**

*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

*Data Science Intern*

**Los Angeles, California**

*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