

# PHILLIP LAGOC

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## EDUCATION

### UNIVERSITY OF CALIFORNIA, SAN DIEGO

*Major in Cognitive Science, w/ Specialization in Machine Learning; Minor in Computer Science*

*GPA: 3.60*

*Relevant Coursework:*

Data Science in Practice, Modeling and Data Analysis, Software Tools and Techniques Lab, Neural Networks and Deep Learning, Advanced Data Structures, Computer Organization and Systems Programming, Machine Learning, Mathematics for Algorithms and Systems

La Jolla, CA  
Sept. 2016 – Jun. 2020

## WORK EXPERIENCE

### MACHINE LEARNING LAB ASSISTANT

**Center for Peace and Security Studies (CPASS) - Machine Learning for Social Science Lab (MSSL)**

*Contact: Thomas Leo Scherer – [tlscherer@ucsd.edu](mailto:tlscherer@ucsd.edu)*

La Jolla, CA  
Jan. 2019 – Present

- Collaborating with CPASS Deputy Director and MSSL Director to create machine learning models to solve social science problems.
- Automating benchmarking process for over 10 date-parsing packages, reducing package analysis time by 30%.
- Cut operational costs by 50% by analyzing various AWS configurations and refining use of such resources based on evaluations.
- Maintaining efficient communication by leading biweekly meetings and documenting weekly tasks into one easily accessible slide deck, speeding up workflow by 50% over six months.

### INSTRUCTIONAL ASSISTANT

**UC San Diego Cognitive Science Department**

*Contacts: Eran Mukamel - [emukamel@ucsd.edu](mailto:emukamel@ucsd.edu), Shannon Ellis – [shannon0ellis@gmail.com](mailto:shannon0ellis@gmail.com)*

La Jolla, CA  
Mar. 2019 – Dec. 2019

- Led weekly sections of 20 students for two Data Science classes, assisting students with data gathering and preprocessing, graph visualization, data analysis, machine learning techniques, and industry-standard practices.
- Received over a dozen extremely positive evaluations regarding my performance, including the highest rating for overall performance from the professors of each class.

### ANDROID DEVELOPER INTERN

**TheTalkList, LLC.**

*Contact: Andres Abeyta – [aabeyta@thetalklist.com](mailto:aabeyta@thetalklist.com)*

San Diego, CA  
Aug. 2017 – Jan. 2018

- Collaborated with an international team to test, develop, and implement UI changes in their Android tutoring app.
- Discovered and debugged over 10 bugs in each new APK, enabling implementation of new app features twice as early.
- Distinguished amongst cohorts by receiving a personal compliment from CEO Andres Abeyta, who recognized my communication and problem-solving skills in debugging the app.

## PROJECTS

### Advanced Regression: Housing Price Competition

Dec. 2019 – Jan. 2020

- Competed in Kaggle's Advanced Regression: Housing Price Competition, ranking in the top 30% of over 5,000 leaderboard entries.
- Doubled my initial leaderboard score by employing ensemble techniques using models from xgboost, LightGBM, and sklearn.

### A\* Navigation System

Dec. 2019

- Implemented A\* algorithm in C++ on a graph of U.S. cities using accurate coordinates and a simple heuristic function involving the Euclidean distance between two cities.
- Scripted the retrieval of geographic coordinates of a list of cities using Python and OpenCage geocoder for more realistic navigation, instead of using the arbitrary values given in the initial dataset.

### Kruskal's and Dijkstra's ActorGraph

Nov. 2019 – Dec. 2019

- Implemented Kruskal's algorithm in C++ with a self-implemented Up-Tree and graph of over 400,000 actors and 290,000 movies.
- Implemented Dijkstra's algorithm using movies as edges and a movie's release year as the weight.

## LEADERSHIP EXPERIENCE

### Cognitive Science Student Association

Sept. 2017 – Present

- Impacted over 600 undergraduate students by coordinating networking events and inviting well-known businesses like Apple and IBM.
- Planning for 14<sup>th</sup> annual conference by coordinating with renowned and successful individuals across the United States, including the IBM AI Practice Lead and the Apple AI Research Director.

## SKILLS

**Languages:** Python, PostgreSQL, C/C++, Java, R, HTML/CSS/JavaScript

**Frameworks and Libraries:** Pandas, sklearn, matplotlib, seaborn, JsPsych, scipy, numpy

**Software:** Jupyter Notebook, Git, Android Studio, AWS, Visual Studio