

Daniel Galarraga

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Education

Cornell University

Ithaca, NY

B.S. IN COMPUTER SCIENCE

Aug. 2017 - Dec. 2020 (Expected)

- Relevant Coursework: Object Oriented Programming & Data Structures, Discrete Structures, Systems Programming, Intro. to Analysis of Algorithms, Functional Programming, Numerical Analysis, Machine Learning (Fall 2019), Computer Architecture (Fall 2019)

Experience

Engineering Practicum Intern

Google (Sunnyvale)

MAIL INTELLIGENCE TEAM

May 2019 - Aug. 2019

- Devised a dialog for Hangouts Chat that displays the detailed availability of users who are out of office. The dialog required the use of HTML, CSS and JavaScript.
- Created a cache for Hangouts Chat to reduce the number of requests made to a server. The cache was implemented in JavaScript and involved the use of data structures such as maps and lists.
- Implemented a metrics pipeline for Gmail and Hangouts Chat that tracks the number of times a specific banner has been seen, as well as the number of users who have seen the banner. The pipeline was devised using FlumeJava (Google's MapReduce pipeline framework).
- Integrated user send status into Gmail's Scheduled Send feature. This work involved the use of CSS, JavaScript and Java.

Undergraduate Researcher

Cornell University

INDEPENDENT RESEARCH PROJECTS

Jan. 2019 - Present

- Explore and prove bounds for algorithms at the intersection of theoretical machine learning and algorithmic game theory; advised by Professor Éva Tardos.

Research Intern

University of Miami

TEXT MINING PROJECT

May 2018 - Aug. 2018

- Utilized Python to devise an algorithm that determines the main topics present in any given song. This portion of the project involved the use of NumPy, Pandas, NLTK & Gensim.
- Proposed and determined whether artists follow specific patterns when devising songs.

Teaching Assistant

Cornell University

COMPUTER SCIENCE DEPARTMENT

Aug. 2018 - Present

- Worked for two undergraduate courses: Discrete Structures (Fall 2018) & Intro. to Analysis of Algorithms (Spring 2019, Fall 2019).
- Grade homework assignments/exams and hold weekly office hours.

Skills

Programming Languages: Python (confident), Java (confident), OCaml (confident), C (familiar), HTML/CSS/JavaScript (familiar)

Technologies: FlumeJava, NumPy, Pandas, NLTK, Gensim, BootStrap, Eclipse, Git, Vim

Human Languages: English (fluent), Spanish (fluent), Portuguese (fluent)

Personal Projects

Analysis on FIFA Rankings

Miami, FL

LEAD DEVELOPER

July 2018

- Implemented an interactive web framework using Dash and Python that allows users to visualize the rankings of a country's men's soccer team throughout history.
- Developed an interactive bar graph using Pandas & Plotly that shows the top ten ranked teams in confederations chosen by the user.

Tip App

Miami, FL

LEAD DEVELOPER

June 2018

- Utilized Android Studio and Java to create a mobile application that computes the tip (taking into consideration the quality of service) for any given bill amount.