Juan Valentin Garcia

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY **Expected May 2020**
Bachelor of Science, Major: Operations Research and Information Engineering
Minor: Business
Relevant Courses: Learning with Big Messy Data, Intro to Data Science for Engineers, Engineering Probability & Statistics, Simulation Modeling & Analysis, Optimization I & II, Service System Modeling & Design, Industrial Data & System Analysis, Introduction to Stochastic Processes
Awards & Recognitions: First Generation Student, Ryan Scholar, NACME Scholar, ESMI Scholar

RELEVANT EXPERIENCE

Basketball Analysis, Cornell University, *Undergraduate Researcher* **July 2019 - Current**
- Manipulate big data relevant to events that occur within an NBA game through Python to analyze the point spread system with every point scored through the scalable Poisson process and Skellam distribution.

Titan Analytics, Cornell University, *Data Acquisition Manager* **Sept. 2018 – Current**
- Supervise the acquisition and manipulation of data from football games through SQL/Excel.
- Increase data quality by 30% by removing inconsistencies and outliers that existed in the initial dataset.
- Consult with members of the board to find methods that will speed up the data collection process.
- Assist Cornell's Sprint Football team by improving their record by 3 wins after the analysis of one season.

Gymcast, Ithaca Rev: Hardware Accelerator, *Founder* **May - July 2019**
- Established and managed a team of 6 Cornell Undergraduates to create a smart bracelet for weightlifters to ensure proper form when working out.
- Programmed a multiple linear regression model using Python and user tested on 10 volunteers which showcased an increase to their workout efficiency by 22% after one session.
- Spoke to over 200 potential clients to get a better understanding of the problem that weightlifters were facing.

EzraBox, Cornell University, *Business Analyst Member* **Sept. 2017 - May 2018**
- Conducted customer research with Cornell students to analyze which aspect of the service needed improvement.
- Defined a tracking pattern from the research database that linked to a 70% chance of a client using our service.
- Lead marketing campaigns through Facebook and Instagram to attract over 200 customers to our service.

Engineering Summer Math Institute, Cornell University, *Undergraduate Researcher* **June - Aug. 2017**
- Awarded $2,000 by the National Science Foundation to create a program on MATLAB that would identify the optimal strategy to win in any given situation for the game 'Shotgun' by generating thousands of possible scenarios that can occur in a game.

LEADERSHIP EXPERIENCE

Cornell SHPE, Cornell University, *Director of Corporate Relations* **May 2019 - Current**
- Establish connections with recruiters from Fortune 500 companies to assist them on campus recruiting efforts.
- Develop relationships with 7 companies in the form of sponsorships which led to over $10,000 in funding.
- Volunteered to assist students in Ithaca High School who struggled with in their STEM coursework.

Cornell Hyperloop, Cornell University, *Business Development Lead* **Jan. 2019 – Current**
- Generate over $20,000 for parts used to make the Hyperloop pod for the annual SpaceX Competition.
- Manage email and social media marketing to attract companies and alumni to fund our project.

SPECIALIZED SKILLS

Languages: Spanish (fluent), English (fluent)
Programming Languages: Python, SQL, R, Java, MATLAB
Skills: GitHub, Communication, Time Management, Product Development, Networking