Juan Valentin Garcia

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My Portfolio: https://juangarcia1012.github.io/

EDUCATION

Cornell University, Ithaca, New York   **Expected May 2020**
Bachelor of Science in 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, Service System Modeling & Design, Industrial Data & System Analysis, Optimization II, Introduction to Stochastic Processes, Object Oriented Programming
Awards & Recognitions: Ryan Scholar, NACME Scholar, ESMI Scholar, 7-time UIL State Champion

RELEVANT EXPERIENCE

Basketball Analysis, Cornell University, *Undergraduate Researcher*   **Jul. 2019 - Current**
- Manipulate big data relevant to events that occur within an NBA game using Python to analyze the point spread system of every point scored.
- Model the game of basketball using the Skellam probability distribution and scalable Poisson Process.

Titan Analytics Inc., Cornell University, *Data Acquisition Manager*   **Sep. 2018 – Current**
- Utilize SQL and Excel to acquire and predict play by play data from football games.
- Increase data quality by 30% by removing inconsistencies and outliers that existed in the initial dataset.
- Collaborated with board members to design and implement methods to streamline the data collection process.
- Improved Cornell's Sprint Football record by 3 wins after providing in depth analysis of their play by play data.

Gymcast, Ithaca Rev: Hardware Accelerator, *Founder*   **May – Jul. 2019**
- Established and managed a team of 6 students to create a smart bracelet for weightlifters to ensure proper form when working out.
- Programmed a multiple linear regression model using Python to determine the relationship between muscle growth and 4 explanatory variables including: time under tension, rest time between sets, number of total reps and weight.
- Interacted with over 200 potential clients to get a better understanding of the problem that weightlifters were facing.

EzraBox, Cornell University, *Business Analyst Member*   **Sep. 2017 - May 2018**
- Conducted user experience tests with 50 Cornell students to analyze areas of improvement for the user interface.
- Defined a tracking pattern from the research database that led to a 70% increase of likelihood a client would use our service.
- Led marketing campaigns through Facebook and Instagram attracting over 200 customers to our service.

Engineering Summer Math Institute, Cornell University, *Undergraduate Researcher*   **Jun. - Aug. 2017**
- Awarded $2,000 by the National Science Foundation to create a program on MATLAB to identify the optimal strategy in any given situation for the game 'Shotgun'.
- Coordinated deadlines for my team of 4 students to complete the project by the end of the summer program.

LEADERSHIP EXPERIENCE

Society of Hispanic Professional Engineers, Cornell University, *Director of Corporate Relations*   **May 2019 - Current**
- Develop relationships with 7 companies in the form of sponsorships that led to over $10,000 in funding.
- Establish connections with recruiters from Fortune 500 companies and assist them with campus recruiting.
- Volunteered at Ithaca High School to assist students struggling with their STEM coursework, increasing test scores by up to 20%.

Hyperloop Project Team, 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.
- Design merchandise for members of the Hyperloop Project Team.

SPECIALIZED SKILLS

Languages: Spanish (fluent), English (fluent)
Programming Languages: Python, SQL, R, MATLAB, Java
Skills: GitHub, Data Management, Data Visualization, Data Analysis, Project Management, Quick Maths