**José San Martin**

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## EDUCATION

**Duke University, Trinity College of Arts and Sciences (**Durham, NC), May, 2020

* **Senior** at Duke University with intended majors in *Computer Science* and *Statistical Science*
* **Cumulative GPA:** 3.6/4.0

# **Relevant Courses:** Statistical Computing, Computer Architecture, Data Structures & Algorithms, Elements of Machine Learning, Software Implementation & Design, Delivering Software, Mobile Application Development, Graduate Level Machine Learning, Operating Systems

## RELEVANT EXPERIENCE

**BACK-END DEVELOPMENT INTERN** IBM Global Chief Data Office (New York, NY), Summer 2019

* Worked primarily under Satyajeet Raje on many aspects of the Automatic Metadata Generation (AMG) division. These aspects included handling unstructured data and parallelizing machine learning models on Kubernetes

# Developed a back-end architecture to provide Machine Learning Models as a service to clients. The architecture made use of the Bazel, Docker, and Kubernetes software. The engineering was done primarily on a Linux Virtual Machine with the use of Vagrant

* Other tasks included maintenance of IBM's BIGSQL database via leveraging their catalog API and handling the unstructured data that is pipelined into IBM's Data Lakes.

**DATA SCIENCE INTERN** Duke University Department of Computer Science (Durham, NC), Summer 2018

* Research under Dr. Jeffrey Forbes and Dr. Kristen Stephens-Martinez, Where I prepared a new Data Science course at Duke based on UC Berkley's DATA8. The new course acts as an introduction to the Discipline of Data Science
* Worked on a Retention Study, which consisted of an in-depth analysis of past Duke graduates to create a model of predicting a student's chance of retention and success in Computer Science at Duke
* Database design and population using SQLite3

**UNDERGRADUATE TEACHER ASSISTANT:** Duke University Department of Statistics (Durham, NC), 2017 – Present

* Teaching Assistant for STA 210: Regression Analysis/ STA 101: Data Analysis and Statistical Inference/ STA 199 : Intro to Data Science / STA 611: Intro To Mathematical Statistics (Grad Version)
* Instruct a weekly lab section, where I assist students in learning statistical concepts, data analysis using the R software, and additional help on the course homework
* Hold dedicated office hours to assist students in coursework material and coding

**SUCCESS PARTICIPANT** SEO Career (New York, NY) 2019-Present

* Receive 50+ hours of individualized coaching and online instruction to achieve targeted professional developmental goals mainly around technical and soft skills training
* Mastery of fundamentals specific to Data Science in order to maximize the likelihood of a return offer at the end of the summer

## SKILLS & INTEREST

**PROGRAMMING & SOFTWARE:** R\*\*\*\*\*, JAVA\*\*\*\*\*, Python\*\*\*\*\*, JavaScript\*\*\*, C\*\*\*, Docker\*\*\*, Kubernetes\*\*\*

**SOFTWARE ENGINEERING:** Through my internship projects and software engineering courses, I have learned a

deep understanding of software design, as well the best methods to create clean, flexible, and efficient software. In my website are examples of some of the projects I have worked on.

**DATA ANALYSIS:** Through my coursework in my statistics and math classes and my data science internships, my experiences working with real data, and my proficiency in the programming languages R and Python, I have obtained a passion as well as

valuable skills in the data science and machine learning fields.

**WEB DEVELOPMENT:** Completed the Udemy Web Development Bootcamp course, and created a website for a machine learning lab to display their SVM algorithm, as well as my own personal website

## CAMPUS & COMMUNITY INVOLVEMENT

**DIRECTOR OF OPERATIONS** Duke University Undergraduate Machine Learning **(**Durham, NC) 2017 – 2018 **PEER PRECEPTOR:** David M. Rubenstein Scholarship, Duke University (Durham, NC), 2017 – 2018 **MATH HELP ROOM TA FOR LINEAR ALGEBRA:** Duke University (Durham, NC), 2017 – 2018