

# John Ray Martinez

AWS Certified Machine Learning Specialist with experience in recommendation systems, NLP, and time series. Recipient of Outstanding Graduate Student Award, College of Computing & Informatics Drexel University in 2021. Data Professional with more than a decade of software engineering experience and a teaching background in Physics.



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## WORK EXPERIENCE

### Data Engineer

#### Nicholas & Company

07/2021 - Present

(2.5 years) Salt Lake City UT, USA

##### Achievements/Tasks

- Build the machine learning infrastructure and recommendation systems from the ground up.
- Develop and implement machine learning products to support the eCommerce recommendation system and personalization experience for [nicco-online](#) customers.
- Maintain AWS Redshift, HVR, Matillion, and Looker applications and develops, tests, implements needed Boomi integration solutions.

### Data Scientist

#### DXC Technology (Applied AI Center of Excellence)

09/2019 - 06/2021

(2 years) Philadelphia PA, USA

##### Achievements/Tasks

- Develop and deploy predictive models that provide predictions about resolution time interval of service tickets.
- Develop a multiple linear regression with Kalman filtering model for projecting COVID19 risk down to an individual employee level.

### Senior IT Consultant

#### Safeway Philtech Inc (through IT Manager's Inc)

01/2016 - 09/2019

(3.5 years) Mandaluyong, Philippines

##### Achievements/Tasks

- Work for Merger Accounting team using Unix and DB2. The project involves analysis, development, maintenance, and stabilization of various accounting applications as a result of the Albertsons and Safeway merger.

### Senior Software Engineer

#### Software International Corporation (M) Sdn Bhd

08/2014 - 12/2015

(1.5 year) Kuala Lumpur, Malaysia

##### Achievements/Tasks

- Serve as the lead application developer for the SAP conversion project, spearheading the analysis, development, and modification of the Insurance's Loans and Claims System.

### Senior Software Engineer

#### J.P. Morgan Chase & Co. (through Seven Seven Softwares Inc)

05/2010 - 07/2014

(4 years) Pasig, Philippines

##### Achievements/Tasks

- Spearhead the enhancement and conversion projects, overseeing UAT and Production batch processing initiatives such as automation.

## SKILLS

Python

R

SQL

PySpark

Scikit-Learn

TensorFlow

Keras

AWS Redshift

AWS S3

AWS SageMaker

AWS Lambda

AWS API Gateway

HVR

Matillion

Looker

Boomi

## EDUCATION

### Master of Science in Data Science

#### Drexel University

09/2019 - 06/2021

Philadelphia, PA, USA

Cumulative GPA: 4.0

- Recipient of [2021 Outstanding Graduate Student Award, Drexel CCI](#).
- Publish an international paper "[The Impact of driver distraction and secondary tasks with and without other co-occurring driving behaviors on the level of road traffic crashes](#)" in the best journal of 'Human Factors and Ergonomics' according to Scimago Journal Ranking (Accident Analysis and Prevention).
- Capstone Project: "Multimodal Brain Tumor Segmentation using Convolutional Neural Network" which was selected for oral research presentation at the 2021 [Drexel Emerging Graduate Scholars Conference](#).

### Bachelor of Science in Physics with Specialization in Computer Applications

#### De La Salle University - Manila

05/2002 - 08/2006

Taft Manila, Philippines

### Bachelor of Secondary Education Major in Mathematics

#### De La Salle University - Manila

05/2002 - 08/2006

Taft Manila, Philippines

## TEACHING EXPERIENCE

### Physics Instructor (06/2008 - 05/2009)

Physics Department, Central Mindanao University, Maramag, Bukidnon Philippines  
Teach university physics to students in engineering and the sciences.

### Physics Instructor (06/2007 - 05/2008)

National Institute of Physics, University of the Philippines, Quezon City Philippines  
Teach university physics to students in engineering and the sciences.