

John Ray Martinez

AWS Machine Learning Specialty certified with experience in NLP, recommender systems, 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 with a teaching background in Physics.



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WORK EXPERIENCE

Data Engineer

Nicholas & Company

07/2021 - Present

(2 years) Salt Lake City UT, USA

Achievements/Tasks

- Build and deploy ML-based recommender systems for substitute items, co-occurrence items, and personalized recommendation in company's eCommerce platform to deliver personalized user experience.
- Collaborate with functional leads and software engineers to define business intelligence and analytics requirement.
- Maintain AWS Redshift, HVR, Matillion, and Looker applications and develops, tests, implements needed Boomi integration solutions.
- Direct and manage critical aspects of large food service company's data warehouse.

Data Scientist

DXC Technology (Applied AI Center of Excellence)

09/2019 - 06/2021

(2 years) Philadelphia PA, USA

Achievements/Tasks

- Developed and deployed predictive models that provide predictions about resolution time interval of service tickets. It has received an appreciation given by Digital Transformation Principal for the fast turnaround of the project.
- Developed a multiple linear regression with Kalman filtering model for projecting COVID19 risk down to an individual employee level. This project helped the employees, facility managers and regional leaders make better decisions around RTW at both the company sites and over 1500 clients sites.

Senior IT Consultant

Safeway Philtech Inc (through IT Manager's Inc)

01/2016 - 09/2019

(3.5 years) Mandaluyong, Philippines

Achievements/Tasks

- Worked 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

- Lead application developer for the SAP conversion project. Involved in analysis and development of Loans and Claims System. Assisted and advised team members in solving programming problems.

Senior Software Engineer

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

05/2010 - 07/2014

(4 years) Pasig, Philippines

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](#).
- Published 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
Taught Electricity & Magnetism and Modern Physics to Science and Engineering major students.

Physics Instructor (06/2007 - 05/2008)

National Institute of Physics, University of the Philippines, Quezon City Philippines
Taught fundamental of Thermodynamics, Relativity, Quantum Mechanics, and Elementary Particles to Science and Engineering Major students.