Emilio Ramos Monzalvo

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EDUCATION

Syracuse University: MS in Applied Data Science

GPA: 3.9/4.00 – Start Date: Late 2019 – Expected Graduation: December 2021

- Relevant Courses (Programming Language): Big Data Analytics (Python), Database Management (SQL), Natural Language Processing (Python), Decision Making (R), Business Analytics (R).

The Pennsylvania State University: B.S. in Mathematics and B.S. in Computer Science

GPA: 3.57/4.00 – Start Date: Late 2015 – Graduation: May 2019 – University Park, PA

- Relevant Courses (Programming Language): Big Data (Hadoop, Pig, Map-Reduce, Scala/Spark), Statistics and Probability (Minitab), Probability, Programming Language Theory (Multiple), Programming Eng. (MATLAB), Game Theory, Linear Programming, and Software Design (JAVA).

SKILLS

Programming Languages and Tools:

- Languages: Python, PySpark, SQL, R, JAVA, C#, JS, and HTML
- Packages: Keras, TensorFlow, SKLearn, SciPy, Dash, PYMC3, A/B Testing, Pandas and NumPy.
- Other: Bayesian Inference, A/B Testing, Tableau, Hadoop, Spark, Docker, VMs, and Linux.

Colloquial Languages:

- Fluent in Spanish and English

WORK EXPERIENCE

Publicis Sapient AI Labs: Data Scientist

Start Date: August 2021 – End Date: Present – Remote

- Trained and planned for a project with the federal government involving NLP and Bayesian Imputation methods.

Western Digital: Data Scientist I

Start Date: May 2019 – End Date: August 2021 – San Jose, CA

- Initiated efforts to incorporate Agile methodology through JIRA to make the team's Project Management more efficient. I currently serve as scrum master for multiple projects.

- Worked as Project Manager to develop analysis and infrastructure as an enhancement to a current solution in a factory in the Philippines.

- Incorporated Spark/PySpark into solution to speed up queries which resulting in reducing time by a factor of ten.

- Led team to generalize Machine Learning solution onto multiple products in multiple factories in Southeast Asia.

- Created statistical solution to identify faulty testers that were harming parts in real time using Time Series Analysis. The solution was accepted by multiple factory teams and has led to an increase in yield.

- Used Statistics and Natural Language Processing (NLP) to get insight into financial data to identify anomalies.

- Communicated with factory teams around the world to understand different opportunities for Analytics and Machine Learning.

- Led team discussion to highlight weekly progress and brainstorm next steps in ML solutions.

- Worked directly with clients to understand KPIVs and KPOVs in intricate factory processes to be able to apply statistical models.

- Orchestrated weekly presentations to give management and clients a comprehensible story of progress in analysis for complex projects and datasets.

General Motors: Capstone Project Developer

Start Date: January 2019 – End Date: May 2019 – University Park, PA

- Created a Relational Database using C# and SQL by parsing log data files from two factories in Mexico.

- Used Angular JS, JavaScript, and HTML to create a Dashboard which displayed the tool's status.

Western Digital: Data Scientist Intern

Start Date: May 2018 – End Date: August 2018 – San Jose, CA

- Collected, cleaned, and imputed unstructured factory data using SQL and Python.

- Created different visualizations to bring insight into factory process which has problems with precision.

- Used Keras and Tensorflow to create a Neural Network model that could predict factory measurement with more precision than current model.

DEPENd Lab for Borderline Personality Disorder: Research Assistant

Start Date: August 2017 – End Date: May 2019 – University Park, PA

- Created a program in MATLAB to gather information on participants' reactions to others' likes to understand reactions from people with Borderline Personality Disorder (BDP).

- Used R and Python to create insight from data gathered from programs developed to understand individuals with BPD

EXTRACURRICULARS

Building, Fixing and Selling Gaming Computers and Laptops

Start Date: Jan 2020 – End Date: Present

- I decided to improve my gaming skills by buying used gaming computers. I fixed and upgraded the computers by changing RAM, Drives, GPUs, and installing newest versions of OS. This included Linux, Windows and Mac OS.

- Used Raspberry Pi for experiments in a Linux environment. Added different features like a camera that runs with python in the backend to capture photos.

NFL Score Prediction Dashboard with Dash in Python

Start Date: Jan 2020 – End Date: Present

- Created a dashboard using Python, SQLite, Dash, HTML, and Plotly to displays visuals of historical prediction accuracy among my family by creating a Raw File Parser, Database, and Dashboard from scratch.

Nittany Data Labs

Start Date: Jan 2018 – End Date: May 2019 – University Park, PA

- Student organization dedicated to introducing students to Data Science where I learned to use technology like Jupyter Notebooks, Pandas, NumPy, Tensorflow and Keras.

Mathematics Tutor: Penn State Learning, Morgan Center, and Kumon

Start Date: May 2015 – End Date: May 2019 – University Park, PA and Fayetteville, AR

- I was tasked with helping students from multiple age groups in subjects ranging from Algebra I to Calculus III and Differential Equations.