

# Martin Ngoh

Washington, D.C | 540-219-6441 | [ngohlmartin@gmail.com](mailto:ngohlmartin@gmail.com) | [Portfolio Website](#)

## SKILLS

---

**Languages:** English, Spanish (Fluent)

**Programming Languages:** Python, R, PySpark, Spark, SQL, HTML, JavaScript, CSS

**Data Science:** RStudio, Jupyter Notebook, Spyder, TensorFlow, PyTorch, Keras, NLP, Tableau, Healthcare Analytics  
Databricks, Azure, SAS, SQL, Linux, Git, Machine Learning, Artificial Intelligence, Deep Learning, Data Cleaning, Data Engineering, Visualizations (Matplotlib, Seaborn, ggplot2)

## WORK EXPERIENCE

---

### Deloitte Consulting LLP

Arlington, VA

*Data Scientist*

October 2021 – Current

Centers for Medicare and Medicaid (CMS) – Risk Adjustment Data Validation (RADV)

- Co-led the development and automation of machine learning models including, Elastic Net regression (ENET), feed forward neural network, and XGBoost, to aid in CMS's recovery of ~\$479 million dollars annually
- Identified an opportunity to automate a manual process by developing a script to launch jobs using Linux, reducing turnaround time from 3 days to 2 hours. Led a successful presentation and provided training to 20 team members.
- Decreased model processing times by 50% after successfully converting model code from SAS to PySpark
- Developed a Python class to apply propensity weighting to time-based samples, resulting in a 10% increase in the model's ranking ability
- Created a Python-based modeling tool to combat model drift, by measuring the variance in model performance and providing a dashboard as a visual aid

### Sabra Dipping Company

Colonial Heights, VA

*Logistics Engineer Intern*

May 2020 – August 2020

- Pioneered a 90-day time study to quantify internal warehouse processes in the raw materials department. Presented findings to senior leaders, offering a solution to reduce delays by up to 17%
- Created a dashboard containing graphs showing the daily, weekly, and monthly productivity of each process, aiding in senior management's ability to make informed budgeting decisions
- Leveraged System Applications and Products in Data Processing (SAP) to track the movement of raw materials throughout the manufacturing plant

## RELEVANT PROJECTS

---

### [Personal Portfolio Website](#)

- Independently built a personal portfolio website after self-teaching HTML, CSS, and JavaScript within 2 months.
- Ensured responsiveness across different devices and regularly updated with new projects and skills

### Financial Customer Segmentation

- Collaborated with a financial services firm to develop 5 high-value customer segments through K-means analysis
- Produced a 20-page report recommending 10 financial products for each segment that would yield the highest financial return

### Soccer Player Prediction Model

- Scrapped web data and generated multiple AI models focused on predicting goals scored by players across Europe's top 5 leagues. The analysis would aid in the acquisition of the top players in the world, costing up to \$200 million dollars.
- Presented comprehensive report and business outcomes to a panel of 10 AI leaders at Deloitte, leading to recognition as the standout performer among 50 practitioners

## EDUCATION

---

### Georgetown University McDonough School of Business

Master of Science: Business Analytics (*Men's Soccer*)

### Virginia Commonwealth University School of Business

Bachelor of Science: Supply Chain Management & Analytics (*Men's Soccer*)