**Education and Certifications**

**University of Pennsylvania, College of Liberal & Professional Studies,** Philadelphia, PA

* Finance Technology Bootcamp Certificate; *2021-2022*

**Saint Joseph’s University**, Philadelphia, PA

* Bachelor of Science in Business Administration – Finance & Marketing; *May 2019*

**Technical Skills**

**Python Programming:** Python 3, Pandas, Matplotlib, API Interactions, JupyterLab

**Algorithms, Statistics, and Modeling:** Execution Algorithms, Monte Carlo Simulations, Risk-Data Aggregation, Forecasting, Financial Modeling, Modern Portfolio Theory, Logistic Regression

**Machine Learning:** Algorithmic Trading, Random Forests, k-Nearest Neighbors (kNN), Support Vector Machines (SVM), Linear Regression, Scikit-learn

**Professional Experience**

**Senior Financial Analyst**

**Operational Forecasting, Digital Finance Innovation Team** *Present*

* Support the execution and governance of technology enabled processes in support of driver-based forecasts and Integrated Business Plan (IBP) for baseline and scenario planning purposes, ensuring executional excellence for in scope processes
* Identify and knowledge share continuous Innovate opportunities related to technology enabled planning processes within DFIT

**Johnson & Johnson Financial Leadership Development Program: *Class of 2021***

**Senior Financial Analyst**

**DePuy Synthes Commercial Finance: Trauma & Craniomaxillofacial** *2021 – 2022*

* Provided direct financial leadership supporting the Vice President of Trauma & Extremities by leading activities to support US Trauma, CMF, & Power Tools Sales Reporting; ~$2.0B
* Develop partnership with Sr. Director of Sales & Director of Marketing to coordinate Business Planning Forecasting, generating roughly 246.0MM Sales & $15M Marketing
* Provide Financial leadership to the Demand Planning/S&OP process to better align the commercial sales forecast with plant manufacturing demand.

**Financial Analyst**

**J&J Worldwide Financial Planning & Analysis: Enterprise & Competitor Analysis** *2019-**2021*

* Responsible for benchmarking internal financial performance versus competitor composites supporting the Pharmaceutical, Medical Device, and Consumer CFO leadership teams
* Forecasting enterprise level income statement for 28 publicly stated competitors ~$700B Sales forecast. Providing key insights to CFO Leadership team on the drivers of competitor
* Provided consistent and timely execution on a wide array of high-priority ad-hoc requests from upper-level Finance and Non-Finance management

**Projects**

**Machine Learning:** <https://github.com/wmccarth123/Project-2>

* Integrate a recurring neural network & and regression analysis to gain a merged signal to develop a trading machine.
* Responsible for project managements, GitHub esthetics, and regression code for initial signal

**Competitor Analysis Modernization Initiative:**

* Drove cross-functional business partnering by collaborating with external consultants to strategically design the final output to introduce efficient processes and value creating
* Reduced job demands by 40 FTE hours (120 HR annually), while saving a total of 70 FTE hours (210 HR annually)