WILLIAM GUY
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PROFESSIONAL SUMMARY

Data Scientist with an M.S. from UC San Diego and a B.A. in Statistics from Cornell University, with applied experience in healthcare, robotics, and sports analytics. Proven ability to extract insights from complex datasets using Python, R, and SQL. Recognized as a team leader on and off the field as a varsity athlete.

EDUCATION

Cornell University – Ithaca, NY B.A. in Statistics	**University of California, San Diego** – San Diego, CA M.S. in Data Science

RELEVANT COURSEWORK

- **Foundational Probability/Statistics in Data Science**
  Built a predictive model of NFL Quarterback performance using 25 years of data. *(A+)*
- **Python for Data Science**
  Final project on hurricane data strengthened A/B testing and power analysis skills.
- **Statistical Computing**
  Defined success metrics for hospitals; learned generalized frameworks for different industries.
- **Big Data Analytics Using Spark**
  Forecasted taxi demand and rider duration using historical NYC cab data.

TECHNICAL SKILLS

- **Languages:** SQL, Python, R
- **Machine Learning & Modeling:** Supervised/Unsupervised Learning, Neural Networks, Feature Engineering, PCA, Predictive Modeling, A/B Testing
- **Statistical Inference & Analysis:** Exploratory Data Analysis (EDA), Correlation Analysis, Power Analysis, Time Series Forecasting, Monte Carlo Simulation
- **Tools & Libraries:** Tableau, Power BI, Excel (Advanced), Microsoft Word, Google Suite, Microsoft Access, Visual Studio, Jupyter Notebooks, Git/GitHub, VBA
- **Programming Libraries:** Pandas, NumPy, Matplotlib, Seaborn, ggplot2, Scikit-learn

WORK EXPERIENCE

Brave Career – Remote
Data Science Intern
June 2024 – September 2024

- Analyzed multi-variable health datasets from hospital in Ontario to identify risk patterns in patients with asthma and COPD.
- Conducted correlation and PCA on clinical data, revealing BMI and weight as top predictors of CRD-related mortality.
- Increased hospital's mortality risk identification of respiratory diseases by 45%.

AMBOT – San Luis Obispo, CA
Data Intern (Robotics)
May 2020 – August 2022

- Analyzed autonomous robot testing protocols to refine hardware and development roadmaps.
- Developed a warehouse inventory system, utilizing SQL to track part usage, optimize restocking cycles, and improve logistics efficiency by 75%.
- Analyzed Interact Centaur "visual" data, deployed to the International Space Station through the European Space Agency.

PERSONAL PROJECT - NFL Wide Receiver Career Success Prediction

- Built a neural network in Python (TensorFlow) to predict NFL wide receiver success, training on 250+ players using rookie stats, combine results, and draft position.
- Achieved 78% classification accuracy in identifying top-quartile performers based on 3-year fantasy point averages.
- Analyzed 8 key combine metrics and demonstrated that 2 (40-yard dash, bench press) had <10% contribution to predictive accuracy, challenging conventional scouting assumptions.