Raymond Ding

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EDUCATION

George Washington University Washington, D.C.
Major: Bachelors of Science, Data Science May 2025

TECHNICAL SKILLS

Coding Languages and Skills: Python, R, Excel, SQL, Power Bi, Tableau
Tools & Libraries: Pandas, Matplotlib, Scikit-learn, Numpy, ggplot2, Shiny, Tidyverse, Lubridate
Analysis Skills: Linear and Logistic Regression, XG-boost, Random Forests, Data Wrangling, Data Visualization, Machine Learning

WORK EXPERIENCE

Endeverus Inc. - Remote **Jan 2024 - Jan 2025**
Data Analyst

- Developed and implemented dynamic Power BI dashboards that provided real-time visibility into resource allocation, resulting in 20% increased sprint productivity and enabling data-driven decision-making
- Leveraged Python and SQL to analyze complex datasets containing customer interactions, extracting over 30 actionable insights that directly informed three market strategies targeting untapped customer segments
- Conducted data analysis that helped identify targeted demographic trends to better understand our customers and identify key features that users would like, allowing the app to gain a 28% upward trend of users within 2 months

Tiny Chef's - Alexandria, VA **June 2024 - Present**
Data Analyst

- Engineered automated Python data pipeline to analyze orders across multiple locations, identifying key demographic patterns that informed targeted marketing campaigns resulting in 15% sales growth
- Designed Tableau reports to track weekly sales metrics, helping management identify underperforming menu items and contributing to a 5% increase in profit margins
- Implemented comprehensive Excel-based inventory management system with VBA automation that reduced manual data entry by 75%, decreased stock outs by 30%, and improved overall operational efficiency by 20%

NOVA Patient Care - Arlington, VA **Jan 2023 - Jan 2025**
Medical Assistant

- Developed and implemented an automated Excel-based system to track clinical procedures and manage supply inventory, reducing manual documentation by 75% and improving data accuracy
- Handled 100+ patient records weekly, maintaining full compliance with HIPAA privacy and security standards

PROJECT EXPERIENCE

Predictive Modeling of Zillow Home Value Index and Economic Analysis **Jan 2025 - Mar 2025**

- Engineered 20+ time-series features from economic indicators spanning 25 years, implementing lagged variables, moving averages, and seasonal decomposition to capture complex market patterns
- Evaluated 7 predictive models (Linear/Lasso/Ridge Regression, ARIMA, SARIMA, Random Forest, XGBoost), achieving 85.7% directional accuracy and 1.62% MAPE with optimal model
- Applied Granger causality tests and cointegration analysis to identify that unemployment rates lead housing prices by 10 months, providing actionable insights for stakeholders

Model Development and Comparison for Unemployment Trends **Nov 2024 - Dec 2024**

- Built and compared 3 predictive models (Linear Regression, Random Forest, Support Vector Machine) to forecast unemployment rates using data from the U.S. Bureau of Labor Statistics (1974–2024)
- Preprocessed over 10 raw datasets with Python, merging, reshaping, and filling in missing data
- Conducted feature selection using correlation analysis and PCA, highlighting 5 key labor force indicators