YANG GUO

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EXPERIENCE

Applied Research Associates   Alexandria, VA
Data Scientist   Mar. 2023 – Present

- Developed a RAG-based chatbot for querying sensitive government data, integrating LangChain, FAISS, and LLaMA 2 with role-based access control, audit logging, and on-prem LLM inference; reduced analyst lookup time by 90%.
- Worked with the Cybersecurity and Infrastructure Security Agency to help identify National Critical Functions and address concerns.
- Conducted exploratory data analysis, data cleaning, analytics, and created visualizations primarily with Python and included libraries.
- Applied machine learning methods for forecasting to train/test models to make future predictions.
- Underwent research to become subject matter expert in various governmental fields.
- Acted as scrum master to facilitate team tasking and wrote up project plans, statement of works, as well as debriefings to communicate results.

NJM Insurance Group   West Trenton, NJ
Java Developer Associate   Jul. 2021 – Feb. 2023

- Worked with GuideWire to maintain and update personal lines insurance policies.
- Created an online consultant time tracking web application using .NET MVC, SQL, HTML, CSS, and BootStrap.
- Wireframed prototypes and used Adobe XD to build demos.
- Analyzed insurance data to generate reports and create information visualizations/dashboards with R, Python (Pandas), and Microsoft Power BI.

Infosys   New York, NY
Data Science Associate   Aug. 2018 – May 2020

- Executed ETL tasks on large datasets using Pyspark and Pandas.
- Utilized SPSS and StatGraphics to analyze data and find actionable insights.
- Developed SQL scripts to extract client information from internal databases.
- Created information visualizations with ggplot, matplotlib, and Tableau to both technical and non-technical audiences.

PROJECTS

Stock Analysis Project

- Used data and data analysis tools to predict stock prices for 7 different stocks.
- Used Python and R to predict stock prices in the future using 5-year historical data gathered using AlphaVantage (API).
- Conducted sentiment analysis using NY Times API data as another predictor.
- Compiled findings into a comprehensive report/presentation.

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals (AZ-900)
Oracle Cloud Infrastructure 2024: Generative AI Professional (1Z0-1127-24)

EDUCATION

Rutgers University   New Brunswick, NJ
Bachelors (Information Technology) Specialization in Data Science

Rutgers University   New Brunswick, NJ
Masters (Information) Concentration in Technology, Information, and Management

- Cumulative GPA: 3.9
- Dean's List
- Graduated Magna Cum Laude

COURSEWORK

- Data Analytics
- Information Visualization
- Project Management
- Object Oriented Programming
- Web Design
- UI/UX Design
- Competitive Intelligence
- Database Technologies

SKILLS AND TECHNOLOGIES

Data Analytics and Business Intelligence: Excel, Python, SPSS, SQL, Statgraphics, Tableau, R
Web Development (*Frontend and backend experience*): HTML, CSS, Javascript, BootStrap, .NET
UI/UX Design: Adobe XD, Photoshop, Indigo Studios, Sketch