Yang Guo

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personal website

EDUCATION

Rutgers University
New Brunswick, NJ

Bachelors (Information Technology)
Specialization in Data Science

Masters (Information)
Concentration in Technology, Information, and Management

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

CERTIFICATIONS
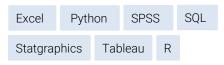
Microsoft Certified: Azure Fundamentals (AZ-900)

Oracle Cloud Infrastructure 2024
Generative AI Professional (1Z0-1127-24)

COURSEWORK

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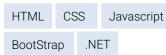Project Management
UI/UX Design

SKILLS AND TECHNOLOGIES

Data Analytics + 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

EXPERIENCE

Applied Research Associates, Alexandria, VA - *Data Scientist*
March 2023 – Present

› Worked on several Department of Homeland Security projects as a data scientist.
› 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*
July 2021 – February 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*
August 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.

Rutgers University, New Brunswick, NJ - *Teacher Assistant*
September 2017 – December 2017

Taught students the fundamentals of web design and information technology.

Tata Consultancy Services, Edison, NJ - *Intern*
June 2016 – September 2016

› Worked on subjects like IoT and chatbots in their innovation lab.
› Experimented with Arduino boards programmed with C to create sensors that connect to the internet.
› Used api.ai to create chatbots to answer people's inquires.
› Interacted with clients to ascertain their technological and business needs.

PROJECTS

Stock Analysis Project

Used data and data analysis tools to predict stock prices for seven 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.