Alexander Julian Crabtree

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PROFESSIONAL SUMMARY

Detail-oriented Data Analyst with a strong background in Python, SQL, and data visualization tools like Power BI. Proven ability to design and optimize data pipelines, develop scalable models, and transform complex datasets into actionable insights. Experienced in working cross-functionally to deliver data-driven solutions and streamline processes. Expertise includes creating comprehensive dashboards, performing advanced statistical analyses, and guiding junior analysts to successful outcomes. Adept at leveraging data to support decision-making and drive business intelligence, with a focus on efficiency, accuracy, and scalability. Currently pursuing a Master's in Applied Physics to further enhance technical skills and analytical problem-solving abilities.

PROFESSIONAL EXPERIENCE

LONE STAR ANALYSIS, **Addison, TX**   **Feb. 2023 – Present**
Data Analyst

- Analyzed and transformed complex datasets from multiple sources, ensuring data accuracy and integrity for diverse customer projects.
- Leveraged Python and SQL extensively to design and optimize data pipelines, ensuring efficient data management, transformation, and loading across various customer projects.
- Developed and maintained scalable data models to support both ongoing and ad-hoc analysis, enabling informed decision-making across projects.
- Created and managed comprehensive Power BI dashboards, integrating SQL queries to deliver actionable insights and clear visualizations to stakeholders.
- Contributed to the development of best practices for key data pipelines, models, and cloud solutions, ensuring transparency and support for data-driven decisions.
- Produced actionable business intelligence by leveraging data analysis techniques (Monte Carlo Simulations, Trend Analysis, Cross-Tabulations, etc).
- Guided junior analysts to customer deliverables by setting strategic goals and providing technical mentorship.

LONE STAR ANALYSIS, **Addison, TX**   **Jun. 2022 – Feb. 2023**
Associate Data Analyst

- Partnered with senior analysts in assembling mathematical models through the preparation of datasets to be ingested by ETL data pipelines.
- Worked alongside senior analysts to understand customer needs and enhance mathematical models, ensuring deliverables addressed customer challenges.
- Iterated upon and implemented Power BI dashboards, providing clear and compelling visuals of operational metrics to stakeholders.

SKILLS & CERTIFICATES

Languages: Python, SQL, HTML, CSS, VBA
Data Visualization Tools: Power BI, Plotly, Matplotlib

Platform & Tools: Microsoft Office, JSON, Git/GitHub/GitLab, PyCharm, VSC, Sharepoint, PostgresSQL
Certificates: IBM Data Analyst Professional

EDUCATION

TEXAS A&M UNIVERSITY,
College Station, TX   **Aug. 2017 – May 2021**
Bachelor of Science in Mathematics
-Dual Minors in Physics and Astrophysics

JOHNS HOPKINS UNIVERSITY,
Baltimore, MD   **Jan. 2024 – Present**
Masters of Science in Applied Physics