Alexander Julian Crabtree

Plano, TX, 75024 • (936) 242-5280 • alexcrabt21@gmail.com • https://alexcrabt.github.io/Portfolio/

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

SKILLS & CERTIFICATES

Skills: Data Cleaning | Mathematical Modeling | Excel | PBI
Data Visualization: Power BI | Plotly | Matplotlib
Platform & Tools: Microsoft Office | JSON | Git/GitHub/GitLab | PyCharm | VSC | Sharepoint
Languages: Python | SQL | HTML | CSS | VBA
Certificates: IBM Data Analyst Professional

PROFESSIONAL EXPERIENCE

LONE STAR ANALYSIS, Addison, TX   Aug. 2023 – Present
Lead Data Analyst

- Developed queries, models, and reporting dashboards to optimize data retrieval, analysis, and visualization, thereby empowering customer engagement through personalized insights and tailored experiences.
- Implemented data science frameworks, methodologies, and best practices into data workflows to ensure consistency, scalability, and repeatability of client products.
- Directed a team in the development of customer projects, setting clear objectives and implementing strategic guidelines to ensure alignment with business goals.
- Provided technical guidance and mentorship to junior analysts, fostering a culture of continuous learning and professional development.
- Employed data pipelines to forecast customer performance, offering insights into root causes and pragmatic solutions.

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

- Applied data science approaches alongside advanced modeling skills to synthesize quantitative data, identifying trends, insights, and actionable strategies that elevate customer decision-making processes.
- Planned expansions to mathematical models to address client problems by understanding business and analytic requirements.
- Used Excel, PowerBI, and data pipelines to integrate disparate data, enabling comprehensive analyses and practical understandings.
- Guided Junior Analysts in data preparation tasks to support analyses, ensuring accuracy, consistency, and completeness of the data.
- Partnered with teammates to develop efficient Python and SQL Queries that improved data workflows.

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

- Collaborated with senior analysts to extract, manipulate, and prepare datasets to use as inputs in powerful mathematical models.
- Assisted in creating visually engaging presentations and reporting dashboards in PowerPoint (PPT) and PowerBI (PBI), distilling complex concepts to better customer comprehension and insight.
- Ensured efficient management of large datasets from mathematical models by maintaining and expanding data pipelines to better ingest, process, and analyze that data.
- Built upon existing models to solve customer problems, while cultivating their understanding of those models.

EDUCATION ONE, Frisco, TX   Sep. 2021 – May 2022
Physics and Mathematics Tutor

- Instructed small groups of up to 3 students in Mathematics, Physics, and English.
- Developed comprehensive packets for Physics, Mathematics, and English to improve student understanding.
- Evaluated and provided feedback on student worksheets.
- Assisted students in SAT/ACT preparation by tutoring essential subjects.

TEXAS A&M AGGIENOVA, College Station, TX   Aug. 2020 – Jul. 2021
Research Analyst

- Designed Python scripts using BeautifulSoup and Pandas for web scraping and data manipulation from astronomical databases.
- Enhanced the SOUSA website through the development of HTML/CSS scripts for data updates and refinement.
- Utilized Python scripts and the SOUSA database to create a Plotly dashboard featuring UVOT filter light curve, color light curve, and color-color diagrams.
- Collaborated efficiently with a 4-member team on joint projects, utilizing GitHub for seamless coordination.