

Alexander Julian Crabtree

(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 Visualization | Data Cleaning | Mathematical Modeling | Excel | PBI

Programs/Tools: Microsoft Office | PBI | 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

- Led and organized teams of junior analysts in developing customer projects, and established clear guidelines to achieve goals aligned with business objectives.
- Developed and maintain complex mathematical models to generate actionable insights from customer data, driving strategic decision-making and business growth.
- Provided technical guidance and mentorship to junior analysts, fostering a culture of continuous learning and professional development.
- Designed and implemented robust data analysis frameworks, methodologies, and best practices to ensure consistency, scalability, and repeatability across team projects.
- Employed proprietary SaaS Platform data results to create analyses that deliver our customers a unique story communicating insights and adding value for clients.

LONE STAR ANALYSIS, Addison, TX

Feb. 2023 – Aug. 2023

Data Analyst

- Utilized data cleaning methodologies alongside advanced mathematical modeling skills to extract actionable insights, thereby elevating decision-making processes.
- Leveraged SaaS platform with customer data to deliver high-quality analyses that provide unique understandings, boosting customer satisfaction and retention.
- Led Junior Analysts in data preparation tasks to enhance efficiency and support analysis efforts.
- Collaborated on the design and implementation of Python and SQL ETL workflows, ensuring the efficiency of data extraction, transformation, and loading for data in proprietary SaaS platform.

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LONE STAR ANALYSIS, Addison, TX

Jun. 2022 – Feb. 2023

Associate Data Analyst

- Collaborated with senior analysts to extract, manipulate, and analyze datasets from a proprietary SaaS platform, deriving actionable insights for customers.
- Assisted in creating visually engaging presentations and reports in PowerPoint (PPT) and PowerBI (PBI), distilling complex concepts to better customer comprehension and insight.
- Developed and maintained Python data pipelines and ETL processes to ingest, process, and analyze large volumes of data generated by proprietary SaaS platform, ensuring efficient data management and analysis.
- Enhanced mathematical models to effectively solve complex customer challenges.

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 Assistant

- 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.