

Alexander Julian Crabtree

Recent goal-oriented Mathematics Alumni, with a strong logic and analytical skillset. Driven and self-motivated, and therefore effective at completing tasks with minimal supervision. Proficient in using scripting languages like Python and subsequent libraries for data analysis and visualization.

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EDUCATION

TEXAS A&M UNIVERSITY, College Station, TX
Aug. 2017 – May 2021
Bachelor of Science in Mathematics
Minors in Physics and Astrophysics
GPA: 3.3

PROFESSIONAL EXPERIENCE

TEXAS A&M AGGIENOVA, College Station, TX
Aug. 2020 – Present
Research Assistant

- Utilized the Swift Optical/Ultraviolet Supernova Archive (SOUSA) data with Python scripts to create interactive visualizations to aid in furthering our understanding of Supernovae.
- Developed Python scripts that made use of libraries, such as BeautifulSoup, to web scrape and manipulate data from astronomical databases.
- Progressed the SOUSA website by developing HTML/CSS scripts to update and refine the data stored there.
- Coordinated effectively with a team of 4 on joint projects utilizing GitHub.

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

- Taught students in a group of up to 3 in areas of Mathematics, Physics, and English.
- Created Physics and Mathematics packets to aid in enhancing students' comprehension.
- Graded worksheets given to students while provided feedback.
- Aided students in preparation for the SAT/ACT through the tutoring of vital subjects.

CONROE ISD, Conroe, TX

Jun. 2019 – Aug. 2019

Custodian

- Kept a consistent cleaning schedule in assigned schools.
- Assisted faculty with the movement of furniture and equipment.
- Maintained an inventory of cleaning supplies and equipment

TECHNICAL SKILLS

Tools

MS Visual Studio | Github | TEXstudio | Microsoft Office Programs

Languages

Python | HTML | CSS | JavaScript | LaTeX

Research

Problem identification | Information Collection | Data Analysis & Visualization | Interpreting Results

ANALYTICAL SKILLS

Inductive & Deductive Reasoning | Critical Thinking | Problem Solving | Data Collection | Data Analysis/Visualization | Interpreting Results

SOFT SKILLS

Attention to Detail | Self-Learner | Time Management | Teamwork | Communication | Confident

INTERESTS

- Astronomy
- Reading
- Running
- Shogi
- Video Games