

# Ashley Breu

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## EDUCATION

MAY 2024

### Trinity University: BS in Computer Science & Minor in Mathematics



- Algorithms
- Data Structures
- Theory
- Operating Systems
- Low-Level Computing
- Linear Algebra
- Artificial Intelligence
- Discrete Structures
- Databases
- Computer Design
- Probability

## WORK EXPERIENCE

### USAA Data Engineer Intern

May 2023 - Aug 2023

- Collaborated with the team to design and implement data validation checks to ensure the accuracy and reliability of migrating data between levels.
- Played a key role in managing historical data loads, enabling efficient access to past information for analytical purposes.
- Developed and maintained a robust data quality framework, establishing rules and processes to enhance data integrity and consistency.
- Created a comprehensive Snowflake dashboard, facilitating data-driven decision-making and reporting.

### Intramural Official / PA

2020 - Present

- Help direct intramural athletes compete in multi-stage tournaments every week
- Developed time management skills and communication as the acting representative in charge

## PROJECTS

### TigerPaws: Class Registration Tool

Spring 2023

- Implemented role-based access control, enabling distinct user roles with personalized functionality and exclusive access rights.
- Played a pivotal role in integrating MongoDB as the database solution, skillfully managing the loading and reloading of extensive data sets to maintain a realistic user experience.
- Collaborated closely with team members, fostering a collaborative environment that encouraged innovation, creativity, and timely project delivery.

### Tiger Tracks: React-based Campus Ridesharing Application

Spring 2023

- Spearheaded the design and development of the app's captivating user interface, ensuring an intuitive and visually appealing experience for users.
- Successfully implemented the login page functionality, enabling smooth authentication for both riders and drivers, thereby enhancing the app's security and accessibility.
- Actively collaborated with team members to exchange ideas, solve technical challenges, and ensure consistent progress throughout the development life cycle.

## SKILLS

Technical C | C++ | Ia | JavaScript | Haskell | Python | SQL | Snowflake | React | React Native | MongoDB | Angular | NodeJS  
Technology MacOS | Unix / Linux | VS Code

## COMMUNITY INVOLVEMENT

### Vice President, Trinity Women in Computing

2022-Present

- Orchestrated a successful coding camp, engaging 30 middle school girls in an immersive learning experience with fundamental programming principals. Created an interactive and supportive atmosphere that encouraged participants to explore their creativity and problem-solving skills
- Pioneered resume building workshops. Equipped them with essential skills to craft compelling resumes, empowering them to pursue future opportunities with confidence and professionalism.

### Exec, Gamma Chi Delta

2022-Present

- Served as the Philanthropy Event Chair. Coordinate all fundraising funds which are donated to camp CAMP.
- Currently Alumni and Judicial Chair. Coordinating a weekend long event with over 500 people.

### Trinity Volleyball Student Manager

2021 - Present

- Played a pivotal role in streamlining logistical tasks and supporting the coaching staff and players within the volleyball.
- Dedication to providing valuable assistance was demonstrated through an average commitment of 10+ hours weekly, including travel time for away games and events.