# Bailie Wynbelt

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## SUMMARY

A passionate and hardworking student pursuing a BS in Information Science with an emphasis in Data Science striving to tackle challenging real-world problems by harnessing the power of data. Primary skills fall in the realm of data wrangling, manipulation, analysis, and management with the overall goal of driving decision-making.

## EDUCATION

**University of Arizona**                                                                                                   Tucson, AZ
Bachelor of Science in Information Science, Emphasis: Data Science                                          May 2024

## TECHNICAL SKILLS

- **Programming Languages**:  R, Python, SQL, JavaScript , HTML, CSS
- **Database**:  SQL (PostgreSQL, MYSQL), Microsoft (MS) Access, AWS
- **Software**:  Tableau, MS Office, Figma, Qualtrics, GitHub, Jira

## RELATED EXPERIENCE

**USA National Phenology Network – Systems Assistant**
Remote **|** September 2023 - December 2023
- Assisted in the troubleshooting and modernization of an API responsible for extracting data from the National Ecological Observatory Network (NEON) and converting it into a format that integrates with the National Phenology Network (NPN) database.
- Employed safe practices to keep information confidential such as using database credentials and VPN's.

**Virga Labs - Website and Database Developer**
Remote **|** May 2023 – September 2023
- Primary objective: Assisted in the development of a website focused on the collection of funding sources regarding Colorado River Basin restoration projects.
- Integrated stakeholder feedback to an interactive tool (30 variables pertaining to 200+ projects) with Shiny under golem framework, with a focus on front-end development.
- Assisted in the development of a data migration plan to adapt the back end of the tool to a MySQL database to be in alignment with industry standards.

**Arizona Youth Partnership – Summer Intern**
Tucson, Arizona **|** May 2023 – August 2023
- Primary objective: Developed and implemented a pilot survey to assess youth needs and evaluate program effectiveness across Arizona.
- Distributed a pilot survey to 64 partnering organizations, resulting in two responses, leading to a better understanding of programs funded by Sexual Risk Avoidance grant and youth needs in Arizona.

## ACADEMIC/PROJECT EXPERIENCE

**Shiny Website (Precipitation Visualization) – Independent Study**
January 2024-current
- Served as sole developer for a Shiny application aimed at visualizing historical Arizona rain data.
- Employed R Shiny, CSS, and GitHub to create an interactive website.

**Study of Diet Diversity in Rodents – Research Assistant**
January 2024-current
- Investigated diet selectivity patterns in southwestern rodents and assessed the effectiveness of different metabarcoding primers in identifying desert plant species.
- Proficiently employed R programming language to manipulate, analyze, and visualize multiple datasets leading to a better understanding of how primer selection can impact statistical analyses of diet selectivity in rodents.

## LEADERSHIP EXPERIENCE

**Tierra Seca – Treasuer**
Tucson, Arizona **|** May 2022 – May 2023
- Financially managed and fundraised $10,000 for the 2023 Annual Society for Range Management Conference resulting in 17 students traveling to Boise, ID to represent University of Arizona.

## HONORS & INVOLVEMENT

- Best Presentation at Women in Data Science Tucson (Data Blitz)
- Honorable mention in the 2023 UA Data Visualization Contest
- Organizer and moderator of discussion panel and networking event focused on inclusivity in tech spaces