Emily Asay

(907) 317-9870 | emilygailasay@gmail.com | www.linkedin.com/in/emily-asay

EDUCATION

Brigham Young University Provo, UT
Bachelor of Science in Bioinformatics, Minor in Computer Science and Spanish April 2024

- GPA: 3.6
- BYU Marine Biology Club – *Vice President*
- Relevant Coursework: Web Programming, Adv. Programming Concepts, Software Design, Database Modeling, Data Structures, Bioinformatics Algorithms, Statistical Analysis for Biologists, Algorithm Design

EXPERIENCE

BYU – College of Nursing Provo, UT
Software Engineer March 2023 – Present

- Facilitate design and full-stack development of web applications catered to the needs of students and faculty
- Developed and launched the Interactive Lists web application resulting in a 52% increase in report generation speed
- Work with and train new team members, ensuring a seamless integration into the workflow
- Deploy prompt and efficient technology support for both hardware and software applications

BYU – Dr. Griffen Lab Provo, UT
Research Assistant Aug 2021 – Aug 2022

- Collected and inputted biological data in a time efficient, accurate matter
- Contributed to the review and publication of five scientific papers to relevant peer reviewed journals such as Ecology and Evolution

PROJECTS

Repetitive Genomics – Python, R Jan 2024 – Present

- Investigate the significance of repetitive DNA sequences in eukaryotic genomes across various organisms and efficiently annotate these sequences using software solutions
- Utilized Python libraries including NumPy and Pandas for robust data processing
- Leveraged packages such as ggplot2 and dplyr in R for insightful data visualization
- Optimize current repeat sequence annotation software tools resulting in a 25% increase in annotation efficiency

Family Map – XML, Java, SQLite July 2023 – Aug 2023

- In 6 weeks, developed a family history android app that allows user to input events in their family tree as well as view them on a Google Map
- Leveraged a SQL database to efficiently manage family tree events such as deaths, births, and marriages
- Established secure user access through the implementation of authentication measures using auth tokens

Skull King Score Card – HMTL5/CSS, JavaScript, MongoDB Aug 2022 – Dec 2022

- Personally developed an interactive web application that acts as a scorecard for a popular card game
- Leveraged front-end languages to eliminate the possibility of human error in scoring calculations

SKILLS

- ASP.NET, MVC, Agile, Scrum, AWS, Object Oriented Programming, Git, Azure, MongoDB, Excel
- C#, Java, JavaScript, HTML5/CSS, SQL, R/R-Studio, Python, C++, XML

ADDITIONAL INFORMATION

- Languages: Spanish – fluent, French – conversational
- Interests: Mario Kart