

Emily Asay

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EDUCATION

Brigham Young University <i>Bachelor of Science in Bioinformatics, Minor in Computer Science and Spanish</i> <ul style="list-style-type: none">GPA: 3.6BYU Marine Biology Club – <i>Vice President</i>Relevant Coursework: Web Programming, Adv. Programming Concepts, Software Design, Database Modeling, Data Structures, Bioinformatics Algorithms, Statistical Analysis for Biologists, Algorithm Design	Provo, UT April 2024
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EXPERIENCE

BYU – College of Nursing <i>Software Engineer</i> <ul style="list-style-type: none">Facilitate design and full-stack development of web applications catered to the needs of students and facultyDeveloped and launched the Interactive Lists web application resulting in a 52% increase in report generation speedWork with and train new team members, ensuring a seamless integration into the workflowDeploy prompt and efficient technology support for both hardware and software applications	Provo, UT March 2023 – Present
BYU – Dr. Griffen Lab <i>Research Assistant</i> <ul style="list-style-type: none">Collected and inputted biological data in a time efficient, accurate mannerContributed to the review and publication of five scientific papers to relevant peer reviewed journals such as Ecology and Evolution	Provo, UT Aug 2021 – Aug 2022

PROJECTS

Repetitive Genomics – Python, R <ul style="list-style-type: none">Investigate the significance of repetitive DNA sequences in eukaryotic genomes across various organisms and efficiently annotate these sequences using software solutionsImplement advanced data analytics techniques, to draw and visualize meaningful conclusionsOptimize current repeat sequence annotation software tools resulting in a 25% increase in annotation efficiency	Jan 2024 – Present
Family Map – XML, Java, SQLite <ul style="list-style-type: none">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 MapLeveraged a SQL database to efficiently manage family tree events such as deaths, births, and marriagesEstablished secure user access through the implementation of authentication measures using auth tokens	July 2023 – Aug 2023
Skull King Score Card – HTML5/CSS, JavaScript, MongoDB <ul style="list-style-type: none">Personally developed an interactive web application that acts as a scorecard for a popular card gameLeveraged front-end languages to eliminate the possibility of human error in scoring calculations	Aug 2022 – Dec 2022

SKILLS

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

ADDITIONAL INFORMATION

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