ZACH ELIASON

I am an undergraduate Bioinformatics student with experience in quantitative ecological research, programming, and data visualization.

EDUCATION

Apr 2023

Bioinformatics
BRIGHAM YOUNG UNIVERSITY

- GPA: 3.98/4.0
- Minors: Math, Computer Science
- Recipient of four-year full tuition university scholarship

WORK EXPERIENCE

Current | Jan 2021

Data Manager & Ecoinformatics Research Assistant
BYU ABBOTT LAB

- Performs analyses on hydrological time series data spanning 3+ years
- Studies effects of megafire on stream ecology and ability of the watershed to recover
- Builds tools for working with large data sets
- Oversees and trains other students involved in data work, leads and plans weekly lab coordination meetings

Sep 2021 | Apr 2021

Bioinformatics Research Assistant
BYU PICCOLO LAB

- Designed and implemented a web tool for teaching and evaluating students learning to code in the context of biology and data analysis
- Developed system to evaluate tool efficacy for future research papers

Apr 2021 | Apr 2021

Temporary Research Assistant
US FOREST SERVICE

- Studied the effects of megadrought and overgrazing on indigenous grasses
- Installed drought structures in Bears Ears National Monument

Apr 2021 | Jan 2021

Computer Science Teaching Assistant
BYU CS260 WEB DEVELOPMENT COURSE

- Taught 60+ students how to design and build both front and back ends of a website on their own server using tools such as HTML, CSS, Javascript, Vue, Node, MongoDB, and Express

Sep 2020 | Jan 2020

Graphic Designer
THE BALLARD CENTER

- Created promotional materials and data visualizations for journal publication
- Met often with clients and stakeholders to understand project expectations
- Engaged in the design thinking process to ensure a strong end product

CONTACT

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github.com/zacheliason

SKILLS

DATA
Python, R, Bash, C++, SQL, MongoDB/NoSQL, Git version control, Javascript, Vue.js, Node.js, HTML/CSS, data visualization

DESIGN
Adobe Illustrator, InDesign, Photoshop, Aftereffects, branding strategy & design process

ADDITIONAL
Russian language, communication, initiative

RELEVANT COURSEWORK

27.5 CREDIT HOURS IN BIOINFORMATICS
biostatistics and statistical programming (R, Python, Unix), C++ programming, data structures, discrete mathematics, linear algebra, machine learning, analysis of variance, general chemistry and biology, web development, data visualization