EKP

Elizabeth K. Philbrook
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Skills

Technical
Python   C++
Java   JavaScript
HTML/CSS
Bash   R

Technologies
Microsoft Office 365
Esri Suite Products (ArcGIS Pro v. 2.8, ArcGIS Online)
PyCharm v. 2021.2.1
NetBeans v. 12.4
RStudio v. 2022.07.1
Visual Code Studio v. 1.71.2
GitHub

Coursework
Data Structure and Algorithms

Systems Analysis and Design

Operating Systems

Artificial Intelligence

Data Science and Analytics

Computer Networks and Security

Education

Bachelor of Arts in Computer Science

Saint Anselm College, May 2022

Honors - Magna cum laude (3.72 GPA)

Coding Bootcamp

University of New Hampshire

Completing March 2023

Elizabeth is a hardworking early career professional looking to work in software engineering changing how the world does business. She exhibits strong technical skills and in-depth knowledge of the software development life cycle and Agile techniques as well as strong written and verbal communication skills. Additionally, she has teamwork experience and well-developed independent time management and problem-solving skills.

Experience

Peer Tutor   SEP 2021 – MAY 2022
Saint Anselm College, Academic Resource Center, Manchester, NH
Provided academic assistance to fellow students in Computer Science courses. Led weekly tutoring sessions in Python, HTML5, and analyzed data with ArcGIS. Developed problem-solving skills through counseling others and gained interpersonal communication skills.

Site Manager   JUL 2022 - PRESENT
Helms BnB, Boston, MA
Perform quality control site visits for properties in the Lakes Region of New Hampshire and correct oversights to organizational standards ensuring high quality services to guests. Provide condition reports to management weekly.

Lake Host   MAY 2018 – SEP 2022
NH LAKES, Wakefield, NH, and Ossipee, NH
Teach boaters about preventing the spread of aquatic invasive vegetation and animals and communicate about the risks that threaten New Hampshire's lakes. Self-manage responsibilities to obtain and enter data using ArcGIS, working in a variety of weather conditions.

Volunteer Work

PRP Association - Cyanobacteria Mapping Project   AUG 2022 - PRESENT
PRP Association, Wakefield, NH

PRP Association Store Summer Salesclerk   JUL 2017 – SEP 2022
PRP Association, Wakefield, NH

Garden Maintenance   JUL 2017 – AUG 2017
Wakefield Food Pantry, Wakefield, NH

Projects

Mapping Cyanobacteria Sites on Pine River Pond in Wakefield NH   AUG 2020 – AUG 2022
Two separate projects building off each other using ArcGIS to map and analyze the locations of cyanobacteria blooms and the land types surrounding the 570-acre lake.
Created map and feature layers to locate sites of cyanobacteria blooms to be expanded as new blooms occur, transforming unstructured data into a csv format. Conducted a data analysis of the land and tested a theoretical LIDAR method for detecting cyanobacteria.

Food Banks and Poverty Levels in New Hampshire   AUG 2021 – DEC 2021
ArcGIS map analyzing the rates of poverty in all census tracts, and the locations and drive times to the food banks.
Created data storage of the locations of the food banks to create map and utilized databases of poverty and population rates for feature layers. Analyzed the estimated driving times to the food banks calculated with ArcGIS to determine which areas were not as accessible. Provided results to the NH Food Bank to aid in determining the best locations for new food banks.

Accomplishments

Alpha Lambda Delta Honor Society
Saint Anselm College Dean List: All semesters, Fall 2018 - Spring 2022