Team Inventory

September 30, 2021

Team LumberHack

Sponsor:
Dr. Andrew J. Sánchez Meador

Mentor:
Melissa D. Rose

Team Members:
Matthew Flanders
Jenna Pedro
Thomas Whitney
Colin Wood

Overview

The purpose of this team inventory document is to briefly introduce ourselves. The following pages outline the training, skills, and relevant experience of each team member.
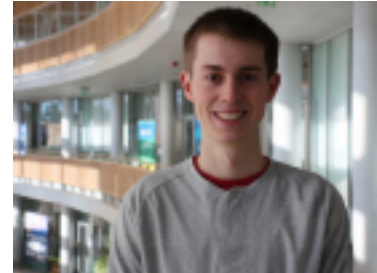
Colin Wood

Institution: Northern Arizona University
Majors: Computer Science and Biology
Hometown: Flagstaff, AZ

High School: BASIS Flagstaff
GPA: 3.7

Relevant Coursework:
- Software Engineering
- Linear Algebra

Work Experience:
- Internship at the Pathogen and Microbiome Institute (PMI)
  - Performed statistical analysis and data visualization for various publications
  - Processed bioinformatic data on NAU's monsoon cluster
- Internship through SICCS
  - Helped to create a RISC-V chip software simulator

Skills:
- I am experienced with the C programming language, have taken multiple courses that involve writing C code, and my internship working on the RISC-V simulator uses C extensively.
- I am somewhat experienced with the R programming language and the ggplot2 visualization library which I have used to make figures and perform statistical analyses.
- I have a lot of experience with various web development tools, front- and back-end, and I have made small web applications for my internship at PMI.

Other Interests:
In my free time, I like to play soccer, mountain bike, and snowboard. I enjoy working on anything that overlaps biology and programming, and that has real world application.
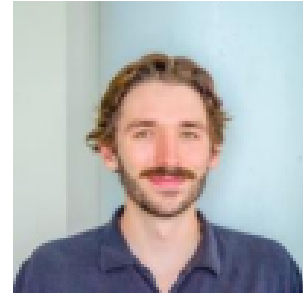
Thomas Whitney

Institution: Northern Arizona University
Major: Computer Science
Hometown: Phoenix, AZ

High School: Desert Vista High School
GPA: 3.8

Relevant Coursework:
- Data Wrangling in R
- Software Engineering
- Operating Systems
- Algorithms
- Linear Algebra

Work Experience:
- Marketing Associate for The Pathogen and Microbiome Institute
  - Managed the JoinPMI.com website and contributed to market outreach

Skills:
Java: I learned Java in my Data Structures class and am comfortable working with Java.
- C: I learned to develop in C in my Operating Systems course and used C to develop an operating system simulator
- R: I learned R from taking the Data Wrangling in R course, specifically the Tidyverse packages. I have used R to visualize and wrangle data.
- HTML, CSS, Javascript: I learned these through a Web Programming course and have used all of them for web development at my job.

Other Interests:

Some of my favorite work in school has been modeling data in R to provide useful information. I also enjoy the outdoors, hiking, climbing, and disc golfing. I am very excited to be working on this project to help protect our forests.

Jenna Thanh Pedro

Institution: Northern Arizona University
Major: Computer Science
Hometown: Honolulu, Hawai'i

High School: Damien Memorial High School
GPA: 3.8

Relevant Coursework:
- Software Engineering
- Algorithms
- Linear Algebra

Work Experience:
- Not applicable to this technical project

Skills:
- C/C++: I have learned these languages during my coursework in the following classes: Computer Organization, Web Programming, Software Engineering, Operating Systems. I am confident in my skills with C/C++.
- Python: I have learned these languages during my coursework in the following classes: Computer Science I, Computer Organization, Web Programming.
- Javascript: I have learned these languages during my coursework in the following classes: Computer Science II, Data Structures.
- HTML: I have learned these languages during my coursework in the following classes: Web Programming, Software Engineering. I am confident in my skills with HTML.
- CSS: I have learned these languages during my coursework in the following classes: Web Programming, Software Engineering. I am confident in my skills with CSS.

Other Interests:

In my spare time, I love to play golf with my friends, try out new places to eat, travel, and shop. Although I am a shy person, I am very reliable, responsible, an excellent communicator, and committed to ensuring our team succeeds.

Matthew Flanders

Institution: Northern Arizona University
Majors: Computer Science and Data Science
Hometown: La Quinta, CA

High School: La Quinta High School
GPA: 3.4

Relevant Coursework:
● Introduction to R
● Statistical Computing
● Algorithms

Work Experience:
None applicable to this technical project.

Skills:
● R programming: I have taken introductory R programming courses and have used R programming in my statistics coursework.
● C / C++ programming: I completed Intermediate Programming and Operating Systems that have utilized the C programming language, and have worked on learning C++ in my personal time.
● Statistics: I have completed Statistical Analysis, Intermediate Statistics, Regression Analysis coursework and I am currently enrolled in Statistical Computation.

Other Interests:

I enjoy the outdoors. Some of the activities I like are: hiking, mountain biking, snowboarding, and playing basketball. I enjoy creating programming tools that can help provide valuable insights to whomever may be interested in them.