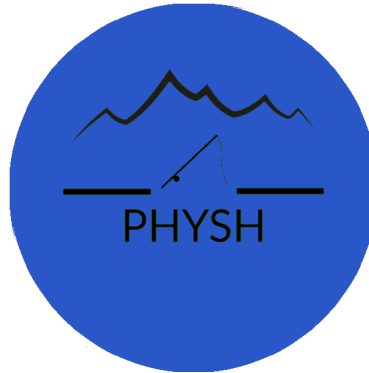# FISH - Fish Identification Search History

Team Inventory

Prepared by the members of Team Physh:
Ryan Mason, Scott Austin, Shelby Hagemann, Eduardo Martinez, and Jack Normand

Sponsored by David Rogowski

Mentored by Vahid Nikoonejad Fard

Overview

This team inventory document is to briefly introduce the team members working on this project.
It outlines the various skills, training, and experience of each team member.

09/19/2022

Personal Information

Name: Shelby Hagemann
Major(s): Computer Science and Modern Languages (German emphasis),
          Minor in Mathematics
Hometown: Peoria, AZ

Education

High School: Liberty High School (Peoria, AZ)
High School GPA: 3.5

Other Institutions Studied at:
Glendale Community College (dually enrolled in high school)
University of Konstanz (study abroad)—Relevant courses taken include Intro to Data Mining and Advanced SQL

Experience

Work Experience:
Student Researcher at Northern Arizona University's CANIS Lab: Worked on backend development for a mobile application, facilitated user testing sessions, co-authored research papers, scraped websites for relevant research data, conducted independent study on the effects of behavioral health apps on first generation college students.

C Programmer and Video Maker: Made video tutorials on how to program in C to be used in several Computer Science courses at NAU.

Skills:
- Android app development: I have worked on developing Android apps both as a student researcher at NAU and for my Software Engineering (CS 386) course project.
- Data scraping: I have utilized data scraping for one of the research projects I have worked on at the CANIS lab. I also created a data scraper to help me gather information for my German thesis that I am currently writing. Both scrapers were made using BeautifulSoup.
- Proficient in programming in C: I created programming tutorial videos and wrote exclusively in C for Operating Systems (CS 480) at NAU
- Proficient in programming in Python: I have written exclusively in Python for two courses—Computer Science 1 (CS 126) at NAU and Intro to Data Mining at the University of Konstanz.

Other Interests
My personal, non-tech-related hobbies include painting, crocheting and rock climbing.
One of my passions in technology is Human Computer Interactions, particularly regarding developing software that can better the mental wellbeing and behavioral health of people.
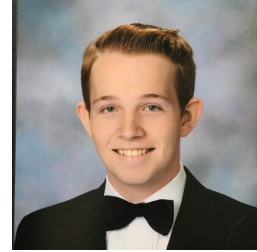
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Personal Information

<u>Name:</u> Ryan Mason
<u>Major:</u> BSCS Computer Science
<u>Hometown:</u> Camarillo, CA

Education

<u>High School:</u> Adolfo Camarillo High School
<u>High School GPA:</u> 3.7

<u>Studying at:</u> Northern Arizona University
        Relevant Courses:
- CS 480: Operating Systems - C programming language
- CS 386: Software Engineering - full stack web development
- CS 440: Software Architecture - software security and architecture

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Experience

<u>Skills:</u>
- Full stack web development: I have worked on a few different websites, both educational and personal. Throughout these projects I have dealt with both frontend and backend.
- Good Understanding of C programming: Worked on multiple educational projects using the C programming language. A primary example is the operating systems project.
- Good Understanding of Java programming: Worked on multiple educational projects using this language, both personal and educational. I would say I have proficient knowledge.
- Proficient in the Python programming language as well having used it in prior college courses and in personal projects.
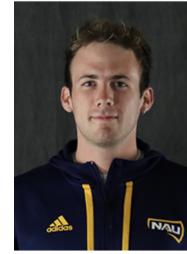

Other Interests

My entire life I have loved computers, so one of my biggest hobbies has been playing all sorts of video games. On top of this I love listening to all genres of music, and a hobby that I just recently picked up which I have fallen in love with is bowling. Recently purchased my own bowling ball and shoes and am starting to really take it seriously. But overall my passions lie in the computer science world.

Personal Information

Name: Jack Normand
Major: BSCS Computer Science
Hometown: Bend, Oregon

Education

High School: Summit High School

Studied at: Northern Arizona University
      Relevant Courses:
- CS480: Programmed in the C language
- CS345: Learned about database systems
- CS386: Created a game in Unity, learned about software design process

Experience

Work Experience:
Student Researcher at Northern Arizona University's CANIS Lab: Developed an iOS and Android cross platform phone application from scratch in React Native, and modified an existing database to support new functionality. Worked on front-end development and UI/UX. Also worked on the back-end of the application.

Skills:

- Cross platform app development: I have created apps that run on both iOS and Android devices in React Native
- Database development: I have modified and updated an existing database
- Microcontroller development: I have created various personal projects on Raspberry Pi's/other microcontrollers for various functions such as: tracking and displaying cryptocurrency prices, utilizing temperature/humidity sensors for growing plants, and RFID reader/writers
- Proficient in programming Java: I have used Java for several classes at NAU (CS136, CS249)
- Proficient in programming C: I have used C for several classes at NAU (CS430, CS480)

Other Interests

My personal interests include golfing, skiing, and anything outdoors. I am also a Division 1 athlete at NAU on the track & field team. I am passionate about creating applications and software that looks good and is easy to use.

Personal Information

Name: Eduardo Martinez
Major: BSCS Computer Science
Hometown: Prescott, Arizona

Education

High School: Bradshaw mountain high school

Studied at: Northern Arizona University
      Relevant Courses:
- CS 212: programmed in html, css, javascript.
- CS345: Created a small database system
- CS386: attempted to create an app in android studio, that would upload food recipes with their photo, and ingredients.

Experience

Skills:

- Android development: have some experience with uploading to a database from app, connecting a firebase, and creating/ implementing design.
- Database development: I have modified and updated an existing database on SQL, googles firebase, and python.
- Proficient in programming Java: I have used Java for several classes at NAU (CS136, CS249)
- Some programming experience in C: currently taking CS 480 (heavy c programming)

Other Interests

  My personal interests include traveling, hiking, and many outdoor activities. I have a passion for learning and developing code that is functional and looks professional.

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Personal Information

Name: Scott Austin
Major: Computer Science
Hometown: Upland, CA

Education
High School: Lutheran High School

Studied at: Northern Arizona University
        Relevant Coursework:
- CS 345 - Database Systems
- CS 386 - Software Engineering
- CS 480 - Operating Systems

Experience

Work Experience:
Student Researcher at NAU - Astroinformatics: Worked on outlier detection on offline asteroid data. Gained valuable experience working on large quantities of data while employing various techniques of outlier detection including the use of standard deviation methods and changepoint detection.

Skills:
- Data Science - gained great experience using data processing techniques during my research.
- Database Management - During my research, I gained experience working with databases with large quantities of data. Specifically, I gained experience with MongoDB during my research and SQL during CS345 and for backend development of the final project in CS386.
- Skilled in various programming languages :
  - Java - Programming experience through courses at NAU(CS126, CS249, CS345, CS386). I also have significant experience reading Java source code while grading projects for CS136 and CS249.
  - C - Programming experience through courses at NAU(CS480, EE222, CS430). Also have experience reading many C programs while grading for CS249 and CS480.
  - Python - Programming experience through courses at NAU (CS126, CS499). Programmed exclusively in Python during my research.

Other Interests

When it comes to Computer Science, I am generally interested in developing software for any sort of meaningful project that has a positive impact on people's lives. Outside of that, I love to disc golf, mountain bike, be outdoors, or play video games.