Team Inventory

26 September 2019

Caribou Cams

Sponsor: Kathleen Orndahl

Mentor: Mahsa Keshavarz

Members: Samantha Muellner, Shuyue Qiao, Keenan Swanson, and Dongyang Yu

OVERVIEW

The purpose of this team inventory document is for our team to briefly introduce ourselves to our client. This document will also briefly describe each of our relevant experience, helpful skills, and individual strengths and weaknesses.

Samantha Muellner

My name is Samantha Muellner, I am a Computer Science Major who was born in Ahwatukee, Arizona.

For high school, I went to high school in three different places as I ended up moving around a bit: Seton Catholic Preparatory (Chandler, AZ), Coronado High School (Coronado, CA), and Sedona Red Rock High School (Sedona, AZ). I graduated from Sedona High School with a 3.85 GPA. I now am attending NAU and currently have a 3.7 GPA.

One relevant class that I have taken at NAU would be Software Engineering, which has prepared me to do the written side of projects such as UML diagrams and proper presentations. Another relevant class that I am taking is one I am currently in: Parallel Programming. This class will help give me insight on how to go about programming the video data analysis program for this capstone project.

Relevant work experience that I have would be my current job as an Undergraduate Research Assistant. Currently this job involves me designing a script that analyzes comments from github and processes them using a cosine comparison in order to tell the user at what percentage the poster of the comment is likely to be a bot rather than a person. This job has given me a lot of experience as to how to go about coding more in depth algorithms and has helped me learn that, sometimes, starting from scratch is the best way to fix a problem.

Skills that I have and can be beneficial to this project are that, through my years, from working and going to school, I have become proficient in Python. Thanks to juggling college, a job, and my personal life, I have gotten very good at being organized. This has also led me to becoming reliable in getting my work done efficiently and on time. My job with bot analysis has pushed me to become unafraid about asking questions when I am confused, and fearless in trying new techniques to accomplish needed goals. I will admit, I have no previous experience with machine learning and AI, but I have a burning desire to learn as much as I can about them, which is why I want to work on this project.

Shuyue Qiao

My name is Shuyue Qiao. I come from Wuxi, China which is a beautiful city. My major is Computer Science.

My high school is in China, my high school has no GPA, but I have achieved very good academic results in high school. I am currently studying at both the University of Northern Arizona (USA) and the University of Yangzhou (China). After graduation, I will earn a degree from two universities, and now I have a GPA of 3.65 at Northern Arizona University.

The high-level course I have attended related to this protect is CS 399, which involves advanced web programming. Based on CS 212 (network programming), this lesson teaches me how to make beautiful web pages with different tools.

I used to work as an intern at Nanjing Great Wall Digital Technology Co., Ltd. (China). In the software development department, I participated in the development of the "Great Wall Accessibility" logistics platform. I am responsible for building and modifying front-end web pages with other members. My work is more inclined to make certain changes to the webpage based on the opinions of the customers, and I will also do back-end programming. This work has made me more proficient in using javascript for network programming and understood the importance of teamwork.

I have good skills in color matching. I studied painting from an early age, which enabled me to design a very beautiful page. In addition, I am full of curiosity, which makes me willing to learn what I don't know. Although I have not studied artificial intelligence before, I am very willing to learn it.

I have studied Java and C. And be able to use them skillfully, but my favorite is network programming. Because network programming is actually tangible, it's easy to find errors.

I tend to listen more than talk. I think good listening can reduce a lot of team conflicts. I will also give my own opinion when necessary.

Keenan Swanson

My name is Keenan Swanson, and I am a Computer Science major. I am from Goodyear, Arizona.

I went to Millennium High School, and my GPA is 3.10. I am currently attending NAU, and a few upper level courses I have attended are 399 advanced web development, 346 databases, and 386 software engineering. I have received my law school acceptance test score, so all I need to do now is to pick a school that suits me.

I haven't worked at any internships, but I've done a couple bigger projects. I did most of the back-end programming for a music streaming service for my 386 Software Engineering project. Currently, I am working on an Android and IOS app for my roommates to track their chores, so I can halt their bickering. Also, it makes for a fun, useful, project.

Some skills I have that can be helpful towards this project are knowledge of php and databases for back-end programming(212 and 346), Java (136 and 249), and C (480 OS).

Something I am really interested in is finding ways to protect people's privacy from companies. That is why I want to go to law school for data privacy or cyber security. Many people don't know what happens behind the scenes in the technical and virtual worlds. On a lesser note, I am passionate about music. I listen to music about 80% of the day, and play the drums whenever I have the time to. I am eager to learn some machine learning and AI since the future is heading that direction rapidly.

Dongyang Yu

My name is Dongyang Yu who was born in Nanjing, Nanjing, China. And my major is Computer Science.

I am an exchange student from Yangzhou University. I will study at NAU for 2 years and I have one more year to study in American. My cumulative GPA is 4.0.

One relevant class that I have taken at NAU would be Software Engineering, which helps me prepare well for this capstone project and gives me deep insight on how to create a product from scratch. Another relevant class is Algorithms. This class gives me a lot of inspiration about how to get the high efficiency through different algorithms.

I am a teaching assistant of Data Structures, and I learned a lot from grading students' projects such as different thoughts for a specific question. At the same time, I reviewed knowledge through answering students' questions, which helps me become more patient and professional.

I have Java (CS249), C (CS480), Web (CS212, CS399 Advanced Web Programming) and Android experience (CS386 product: Food Delivery). In addition, I want to learn some algorithms about how to get predictions using big data and learn to cooperate with others in an efficient way.

Since Machine Learning is a new world for me and I have never been exposed to it, I am willing to study for that and try my best to learn and delve into it. Thanks to big data and internet, we have a lot of data to be provided for a computer to process. I want to learn how to use algorithms to do that.