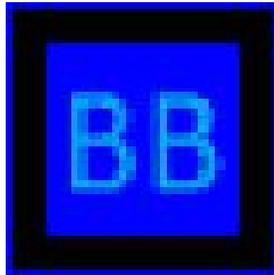


Team Inventory



Team Blue Box

Bradley Barber

Melina Diamond-Sagias

Jonathan Hillman

Yunsong Wang

Zachary Wilson-Long

Sponsor: *Dr. Toby Dylan Hocking* | **Mentor:** *Tomos Prys-Jones*

Overview:

In this document you will find an overview of each team member's relevant knowledge and experience.

Bradley Barber

Computer Science

From Palm Beach Gardens, FL



Education:

High School-Ironwood Ridge, Tucson AZ-GPA:4.0

Relevant courses:

CS315-Automata Theory

CS345-Database Systems

CS399-Advanced Web Programming

CS499-Deep Learning

Work Experience:

Alphabet Inc. intern working specifically with machine learning genetic algorithms for OS RAM improvements. Commissioned by Parexel to assist in genetic algorithms to detect deformations in a fetus's genes and estimate possible causes/cures.

Skills:

- Algorithm design-I have experience drawing out and designing algorithms to solve major issues
- Machine learning-I have been working with machine learning for nearly 7 years now
- Biology-My work experience has taught me quite a bit about genetics and has given me a strong background for this project

Other interests:

I enjoy independent research and solving logical problems in the most elegant way possible.

Melina Diamond-Sagias

Computer Science / Japanese Major

From Phoenix, Arizona

Education:

Red Mountain High School - GPA: 4.0

NAU - Relevant Courses

1. CS499 - Advanced Web Development
2. CS315 - Automata Theory
3. CS499 - Android App Development

Work Experience:

Freelance web development - created websites for various professionals, used relational databases with mySQL to store information

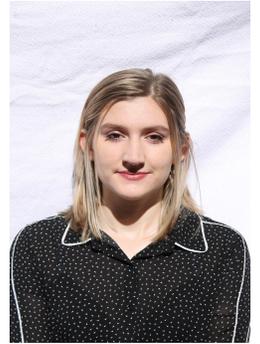
Software development - worked with project team to create web application to facilitate teamwork

Skills:

- Programming - competent and comfortable with multiple programming languages including Python, C, C++, and Java
- Front end web development - able to create comprehensive, efficient, good looking web pages using HTML5, CSS, and JavaScript
- Back end web development - able to manage and process server-side actions using PHP, Python, Node, and mySQL

Other interests:

I am deeply interested in languages (both natural and programming) and their function. I also very much enjoy cryptography and its implications in network security.



Yunsong Wang

Computer Science Major

From China JiangSu

Education:

High School - JiangSu No.1 High School - GPA:3.6

NAU - Relevant Courses

CS-315 Automata Theory

CS-345 Database Systems

CS-499 Contemporary Developments



Work Experience:

I have made Java framework software for the school before, one is random number generation, the other is student management system (add, delete, find, calculate average score, etc.).

Skills:

- Java - Programming and software framework
- HTML - Web page construction
- Android - android application construction

Other interests:

I am very interested in js and other parts of web programming. I am also interested in mobile phone applications, and want to write software that can be used by other users.

Jonathan Hillman

Computer Science / Math major

From Sierra Vista, AZ



Education:

Buena High School - 3.65 GPA

NAU - Relevant Courses

1. CS345 - Databases
2. STA444/445 - R Programming
3. CS499 - Deep Learning

Work Experience:

REU in Michigan - Coordinated with a team to develop an understanding of the magnitude that each local environmental factor had on volume levels of Lake Chad using real data.

Research Assistant for Toby Hocking - Improved knowledge of Machine Learning Algorithms in order to contribute in relevant and productive ways.

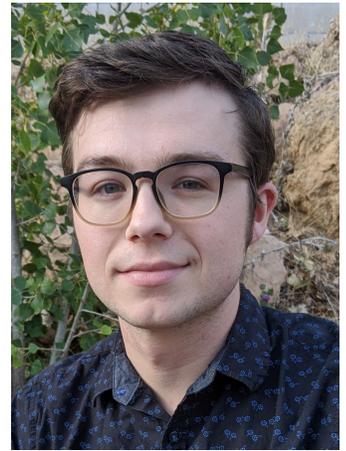
Skills:

- Machine Learning background - Acquired knowledge of multiple machine learning algorithms through several courses and independent studies.
- Coding - Comfortable with reading/writing several different coding styles and languages

Other interests:

I am mostly a mathematician that has a programming background. I am inspired by math and data science topics.

Zachary Wilson-Long
Computer Science Major
From Tucson, AZ



Education:

High School — Presidio School — GPA: 3.5

NAU - Relevant Courses:

1. CS 430 - Computer Graphics (*Currently Taking*)
2. CS 450 - Parallel Programming (*Currently Taking*)

Work Experience:

My biggest weakness is that I do not have experience outside of school but I am dedicated and a quick learner.

Skills:

- Python - Used for personal projects and as a glorified calculator for school
- Graphics Design (Photoshop/GIMP) - hobbyist and somewhat knowledgeable

Other interests:

I am deeply interested in science and history. I enjoy learning new programming languages and tools.