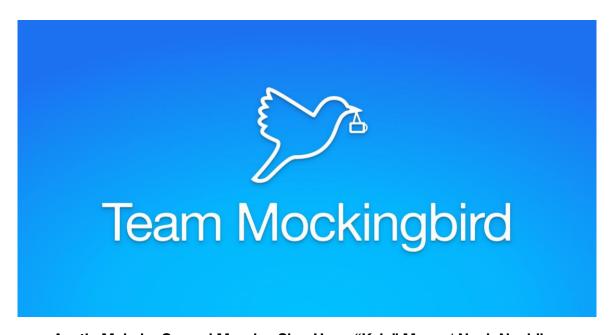
# Team Inventory

February 8, 2022

Team Sponsor: Alexander (Allie) Shenkin
Team Mentors: Tom Prys-Jones, Anirban Chetia

Document produced by



Austin Malmin, Conrad Murphy, ShanHong "Kyle" Mo and Noah Nuebling

#### **Austin Malmin**

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My name is Austin Malmin. I was born and raised in Gilbert Arizona and am currently pursuing a Master's Degree in computer science here at Northern Arizona University. I love being outdoors. Whether it's hiking, skiing. Snowboarding, wakeboarding or just being in a hammock the fresh air and sunshine bring me joy.



# **Education**

<u>High School</u> - I finished high school in 2019 at Campo Verde with a GPA of 4.2

CS 499 - <u>Unsupervised</u>
<u>Machine learning</u> - This was
my first experience with
Artificial Intelligence and I
loved it.

CS 249 - Data Structures - This Class was one of my most challenging classes in the early stages of my CS journey but it taught me many valuable lessons. The most important might be to not procrastinate, the value of separating your tasks into subtasks and implementing that with classes, and many more.

CS 421 - <u>Algorithms</u> - This class required extensive problem-solving skills and working through programs in pseudo code before executing in code

# **Work Experience**

Vector Marketing District

Manager - I am District

Manager for Vector Marketing
Corporation where I teach
and develop people to sell
Cutco products. I have
become extremely successful
in this field and personally
over 300,000 in career sales
in under 3 years. This comes
with excellent presentational
skills as well as real
experience in the
professional work
environment.

Vector Marketing Sales
Representative - This was my
first experience in the
professional world where I
would meet with people,
discuss a product with them,
and help close a sale. I found
to be one of my strong suits
quickly and was able to sell
over \$65,000 in my first year
in this position.

### Skills

Fast Learner - as I did not program before college, I had to quickly develop skills equal to peers who had been much more practiced in this field. With that being said, I have been able to develop a quick mastery of new information and new skills in a short time span.

People Skills - From my time with Vector, I have been equipped with any and all skills I will need when dealing with people.

Language Proficiencies - I currently have mastery-level skills in Python, Java, R, and HTML. I am comfortable with JavaScript and CSS. I am willing and able to learn any new language I will need to in order to complete this project effectively.

<u>Interests / Other:</u> - Machine learning and Data Science are 2 areas that I look to do much more work in and the career path I am currently pursuing.

# Noah Nuebling

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Hi, my name is Noah! I'm an exchange student from Germany, and I enjoy UX and Mathematics. Since I've come here to the US I've really enjoyed hiking in the beautiful nature surrounding Flagstaff as well as trying all sorts of interesting foods and sweets that we don't have at home.



# **Education**

Computer Graphics and Linear Algebra - These courses, which I attended in Germany have prepared me to solve 3D problems in code and on paper.

My Machine Learning with Matlab class - Taught me to solve difficult mathematical problems and formulate algorithms based on them.

CS 450 - Parallel
Programming - This was a
really fun class that I learned
a lot and did very well in. My
new skills have already come
in handy in several personal
projects. I wouldn't be
surprised if I will have to use
them for Project Glasswing
well.

# Skills

Problem solving - Taking many hard and very theoretical classes during my years at college in Germany I've become confident in my skills at solving abstract problems efficiently.

Programming architecture - Working on my favorite personal project Mac Mouse Fix, I've learned how to consistently write readable, maintainable code to support a large-scale project.

Programming Tools and Languages - I have extensive experience with git and with many different C-like languages and their relevant environments (Java, Python, C++, Objective-C, C, Swift) as well as Haskell.

I find it relatively easy to pick up new languages, so I'm confident that I'll be able to learn any tools required for the project without much trouble.

# **Work experience**

I have not had any relevant work experience so far.

Interests / Other: - I love paleontology and prehistory. It's fascinating!

# **ShanHong Mo**

sm3344@nau.edu 602-815-0897

My name is ShanHong(Kyle) Mo. I was born in China but I spent my life in China, VietNam and America equally. My hobbies are events that allow me to socialize with others, it can be video games, board games or just a hangout party. I came to Flagstaff because it is too hot in Scottsdale.



# **Education**

# CS386 Software Engineering:

Worked with my team to design a product. Our group made a GUI app using Dart language with the purpose of keeping college students healthier during COVID. This includes exercises and healthy diets.

# CS345 Database System:

Basic understanding of SQL and Database systems.

# <u>Skills</u>

# Languages:

I have understanding in HTML, Python, Java, R. Some understanding in C.But I am willing to learn the languages required for this year-long project.

# **Quick Learner:**

Started programming a little over 2 years ago and I will always be ready to learn a new language.

#### **CS413 Virtual Worlds:**

Designed games using Aseprite and Game Maker Studio. We also had to work in teams to design games that fit the criterias. Some games are strategy, puzzles and RPG games.

#### **Communication Skills:**

Always willing to talk about conflicts, struggle or just anything in general with others and provide solutions if there are problems.

Interests / Other: I love cooking (Asian food) and music from other countries

# Work experience

**Game Development:** Designed and created several mobile games as a personal project.

# **Conrad Murphy**

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My name is Conrad. I hail from the sunny beaches of San Diego, California; I decided to study in Flagstaff and enjoy the snow and mountains instead! I've got the best of both worlds—hiking and skiing here in Flagstaff; swimming and enjoying the sun back at home.



# **Education**

Mission Hills High School: >4.0 GPA due to AP classes

Northern Arizona University: 3.9 GPA

Software Engineering (CS386): This class laid the groundwork for projects such as these—how to make good design choices, manage schedules, organize team responsibilities, etc.

Databases (CS345): I learned how to create and manipulate databases via SQL here. Databases are useful, if not vital, in just about every field of software engineering.

#### Linear Algebra (MAT316):

Linear Algebra seems to be a useful tool for many technical projects and fields. In particular, it is paramount in search algorithms and machine learning. Our team speculates that machine learning may be necessary for this project.

#### <u>Skills</u>

Programming Languages:
Proficient in C, Java, Python,
SQL; adequate in R, HTML,
CSS, JavaScript, PHP. These
were all picked up from
various courses at NAU.

#### **Problem Solving:**

I consider problem solving to be foundational to my core interest in computer science. Puzzles and games have been a part of my life since childhood, and they have shaped my way of thinking about objective solutions to programming problems given a closed set of rules. My background in mathematics plays a similar role.

#### Attention to Detail:

I tend to be picky when it comes to how I think things should be done. I pick up on certain ideas that may work better than others, whether or not some code matches the intended design, ways to make some line of code more optimal or more readable, etc. It is important to stay faithful to a plan to avoid making things sloppy.

# **Work Experience**

Databases Project: This database project I wrote for CS345 spanned over 1,000 lines of code and gave me essential practice working with SQL.

Escondido PD, Computer Intern: Some of my volunteer work at a local police department included scanning physical records into digital form and updating digital schedules. My prowess with computers helped to complete certain tasks with unexpected speed and efficiency.

Interests / Other: I dabble in cooking and baking and have been trying to self-learn the piano.