Team Inventory

SmartTalk

September 11, 2020

Sponsor: Dr. Okim Kang

Mentor: Fabio Santos

Team members: Joseph Vargovich (lead), Andrew Munoz,
Kehan Cao , Christian Bito-on, Malik Jones

Overview: The significance of the team inventory is to introduce all the members who are working on this project as well their skills and their academic background.

Joseph Vargovich

Biographical info:
Major: Computer Science **Minor:** Mathematics
Hometown: Phoenix, AZ
Contact: jrv233@nau.edu | 480-721-1241

Education:
High School: Desert Ridge GPA: 3.8
Universities: Northern Arizona University, Arizona
- **Relevant Coursework:**
    - CS 345 - Databases
    - CS 399 - Mobile App Development
    - CS 386 - Software Engineering
    - CS 212 - Web Development

Work Experience:
- **NAU Machine Learning Lab**
    - Undergraduate Research Assistant - Design and implement new model selection algorithms to support Machine Learning pipelines.
- **PetSmart**
    - IT Engineering Intern, designed a contactless payment system for the PetSmart mobile application.

Skills:
Java: I use Java very frequently for developing mobile applications and algorithms. I am very familiar with this language and its syntax.
Kotlin and Flutter I've used Kotlin to develop mobile apps for CS 399. I am pretty familiar with it so I could use it once again for this project. I have also used Flutter, but not as much.
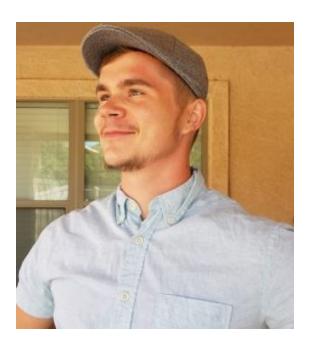**Python**: I am very comfortable with Python and its syntax. I am familiar with some Python server libraries for backend web development too, but I would love to learn more.
JavaScript, HTML5/CSS: This is the standard tech stack for web development. These were the first languages/tools I learned as a software developer!
SQL: I have some knowledge of how to format SQL queries to use databases.

Other Interests:
I love to be outdoors! I go hiking quite often and try to keep active! I came to NAU and Flagstaff for the climate and green environment! I am also a huge animal lover, so I loved my work with PetSmart! I choose this project as I have used language learning apps in the past to learn Spanish. I know how they work and, most importantly, how to improve upon them.

Christian Bito-on

Biographical info:
Major: Computer Science & Comparative Culture Studies
Minor: Japanese
Hometown: Manila, Philippines
Contact: crb487@nau.edu | 412-996-3296

Education:
High School: Imagine Preparatory Coolidge GPA: 4.0
Universities: Northern Arizona University, Arizona
- **Relevant Coursework:**
    - CS 399 - Mobile Application Development
    - CS 499 - Advanced Mobile Application Development
    - CS 345 - Databases
    - CS 386 - Software Engineering

Work Experience:
- **NAU CEFNS Department**
    - CS 249 Teaching Assistant - Instructed and reviewed students on data structures and sorting algorithms
    - CS 480 Teaching Assistant - Instructed and reviewed students on operating systems concepts and on simulation of an operating system
- **Regional Fire Rescue**
    - Secretary - Handled and organized financial documents and sent out correspondences to registered members
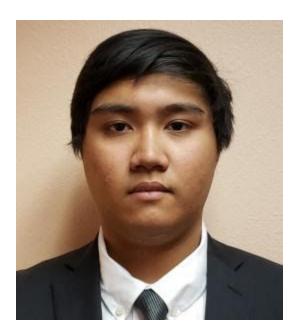
Skills:
C: I am very familiar with this language due to an OS simulation project in CS 480, with some focus on POSIX threads.
Flutter and Kotlin: I used Flutter during CS 499, and Kotlin during CS 399. In both classes, I have made a mobile application and became familiar with each language.
Language: Learning to understand spoken Japanese and Tagalog has helped me become better at recognizing tone and pitch, as well as allowing me to have a better understanding of different intonations and pronunciation.

Other Interests:
I like to explore different types of interdisciplinary concepts, such as learning languages through applications or implementing programs in robots. I think that using different skills that are normally separated together is an important skill and can open up a number of possibilities. Outside of the academic realm, I enjoy practicing martial arts, playing musical instruments, and making model kits.

Kehan Cao

Biographical info:
Major: Applied Computer Science
Hometown: NanTong,China
Contact: kc2778@nau.edu | 520-491-0689

Education:
High School: XiTing High School,China
Universities : Northern Arizona University, Arizona &
Yangzhou University, China
- **Relevant Coursework:**
  - CS 386 - SoftWare Engineering
  - CS 345 - Database Systems
  - CS 399 - Mobile Application Development

Work Experience:
- Yangzhou University (China)
  - A small data systems with C Programming
- Northern Arizona University
  - All Projects have been through NAU (a take out app in CS386).

Skills:
Mobile Application Development: I learned CS399 before and know some basic knowledge about mobile application development. Besides, I developed a simple take out application with my friends in CS386 so I know the progress of how to develop an app.
Learning: During CS386,I found that there are many things that I have never set foot in so I think it is very important to be good at learning new content. In future development, it must have some new things we need to learn and I'm ready to do that for any time.

Other interests:
I am very interested in the development of mobile applications because I can run my development results on my own mobile phone. After mastering enough knowledge, I can even write some plug-ins to make my phone unique, which is very cool. Now I am working hard in this direction, and developing a fully functional app with team members will greatly enhance my ability. I am willing to learn any new knowledge to help my team develop this app.

Andrew Munoz

Biographical info:
Major: Computer Science
Hometown: Baldwin Park, California
Contact: am4388@nau.edu | 626-806-6690

Education:
High School: Baldwin Park Highschool, California
Universities: Northern Arizona University, Arizona
- **Relevant Coursework:**
  - CS 345 - Databases
  - CS 386 - Software Engineering
  - CS 212 - Web Development

Work Experience:
- Hussmann
  - Engineering Intern
- NAU Family Violence Institute
  - App Developer
- NAU Advanced Media Lab
  - Project Lead Developer
- NAU Boundaryless
  - Technology and Program Coordinator

Skills:
Mobile Application Development: Lead the development of projects of mobile applications for clientele for two years at the NAU Advanced Media Lab. As well as developing a cross platform informational app alone for the NAU Family Violence Institute.
Virtual Reality Development: Project Lead on multiple Virtual Reality Projects intended for clientele in the educational field. Projects were designed to be used as a teaching tool and intended for a classroom setting.

Other Interests:
I've taken an interest in augmented reality development over my time here at NAU. I feel as if it is the future in terms of technology that will be integrated into our daily lives. The applications are endless and already show promise of being super helpful.

Malik Jones

Biographical info:

Major: Applied Computer Science
Hometown: Los Angeles, California
Contact: maj328 @nau.edu | 323-639-6191

Education:

High School: New West Charter, California GPA: 4.0
Universities: Northern Arizona University, Arizona

- **Relevant Coursework:**
    - CS 386 - Software Engineering
    - CS 212 - Advanced Web Programming
    - CS 399- Mobile Applications Development
    - CS 345 - Databases Systems

Work Experience:

- Northern Arizona University
    - All Projects have been through NAU.

Skills:

Web Development: I have learned this concept in CS 212 and CS 312. By developing web applications, I have found it interesting to know about web servers and how to create a website from scratch through HTML, CSS and JavaScript.
Teamwork: On my career path of pursuing my degree in computer science, I have learned it is important to not only be a people person but to listen other people's ideas
Technical Writing: Over the years of learning how to get comfortable with writing I have improved those skills-CS 386 and ENG 302W. By taking these courses I feel extremely comfortable and I can write any professional document.

Other Interests:

Throughout my experience at NAU I have become very passionate about mobile and web development. By taking all the courses that have been provided to me, I would like to use everything I have learned to create a product that can be useful. Also to keep learning and developing new skills to become a better developer as well a better person.