

Team Inventory

February 20, 2025

HapTech

Project Sponsor: Dr. Reza Razavian

Project Mentor: Jeevana Swaroop Kalapala

Team Members: Landon Coonrod, Matthew Gardner, Peter Hilbert,
Karissa Smallwood



Overview

The purpose of this team inventory document is to briefly introduce the members of our team. The following pages outline the training, skills, and relevant experience of each team member.

Landon Coonrod

Major: Computer Science
Hometown: Bend, Oregon



Education

- **High School:**
 - *Summit High School*
 - **Bachelors in Computer Science:**
 - *Northern Arizona University*
 - Relevant Courses:
 - [CS 249] – *Data Structures*
 - [CS499] – *Post Quantum Cryptography*
 - [CS386] – *Software Engineering*
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Work Experience

- **NAU Biomechatronics Lab**
 - *During my time in the Biomechatronics Lab, I've gained in-depth coding skills that bridge computer science and mechanical engineering. This experience has allowed me to expand my knowledge beyond my primary degree while solving complex, interdisciplinary problems. Additionally, working in this lab has strengthened my communication skills, enabling me to effectively share ideas and contribute to ongoing research. Above all, it has been incredibly rewarding to witness how my work supports rehabilitation efforts and positively impacts the lives of others.*
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Skills

- **Python:**
 - *Through the lab, I have integrated two systems that utilize both Python and C++ code. This integration has shown me the strengths and applications of both languages.*
 - **C++:**
 - *My first introduction to C++ was 5 years ago during my undergraduate studies. Since then I have honed my skills to develop large-scale code with modularity and maintainability.*
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Other Interests

Outside of my academia and research, I enjoy outdoor activities such as mountain biking, mountaineering, hiking, and backpacking. When I'm not coding or conducting research, you'll often find me in nature.



Matthew Gardner

Major: Computer Science

Hometown: Gilbert, Arizona

Education

- **High School:**
 - *Mesquite High School*
 - *GPA:* 4.2
- **Masters in Computer Science:**
 - *Northern Arizona University*
 - Relevant Courses:
 - [CS552] – *High Performance Computing, Parallel programming*
 - [CS570] – *Advanced Intelligence Systems*
- **Bachelors in Computer Science:**
 - *Northern Arizona University*
 - Relevant Courses:
 - [CS460] – *Computer Networking*
 - [CS480] – *Operating Systems*

Work Experience

- **Sedona Divine Olive Oil / Web Developer:**
 - *Web developer for assisting in the creation of a new website from an outdated version. Wrote HTML / CSS code along with integrating Shopify into the site.*
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Skills

- **Web Development:**
 - *Developed strong skills in web development through both practical experience and diverse coursework.*
 - **Python:**
 - *Python is the primary language I have used in numerous projects and classes, which has given me a deep understanding of its capabilities.*
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Other Interests

Outside of NAU, I enjoy spending time outdoors—hiking, camping, and immersing myself in nature. Additionally, I am an avid car enthusiast who enjoys both sim racing and working on my own vehicles whenever possible.

Peter Hilbert

Major: Software Engineering
Hometown: Gilbert, Arizona



Education

- **High School:**
 - *Campo Verde High School*
 - *GPA: 4.0 (Unweighted)*
- **Bachelors in Software Engineering:**
 - *Northern Arizona University*
 - Relevant Courses:
 - [CS386] – *Software Engineering*
 - [CS460] – *Computer Networks*
 - [CS465] – *Distributed Systems*

Work Experience

- **NAU RESHAPE Lab**
 - *Full stack development on a VS Code plugin, which is a chatbot intended to help novice computer science students develop computational thinking skills. Coded the extension frontend using VS Code's TypeScript API and a Python backend using Flask and DSPy, which also has a MySQL database component.*

Skills

- **Python**
 - *Developed proficiency in Python programming through my work in the RESHAPE Lab.*
- **Network programming**
 - *Familiar with network programming in C and Java through my computer networks and distributed systems courses, where I built applications such as a chat and a transaction server.*
- **Agile development**
 - *Familiar with the agile development process; experience working on software with a team through my software engineering course and my work in the RESHAPE Lab.*
- **Unity**
 - *Familiar with the Unity game engine; developed a tower defense game for my team project in my software engineering course.*

Other Interests

My main hobby outside of programming is gaming. I have always loved to play video games and dabble in game development. This project is interesting to me because we are exploring new ways for users to interact with virtual environments.



Karissa Smallwood

Major: Software Engineer
Hometown: Mesa, Arizona

Education

- **High School:**
 - *Mountain View High School*
 - *GPA: 4.1*
 - **Bachelors in Software Engineering:**
 - *Northern Arizona University*
 - Relevant Courses:
 - [CS386] – *Software Engineering*
 - [CS396] – *Principles of Programming Languages*
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Work Experience

- **NAU RESHAPE Lab**
 - *In the RESHAPE Lab, I'm helping gamify GitHub to make open-source onboarding more engaging for CS students. The project allows students to level up by contributing to real-world projects, unlocking new skills and boosting confidence. I'm contributing by working on the development and design of the gamification elements, helping shape a more interactive learning experience while exploring approaches like large language models.*
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Skills

- **C++:**
 - *Introduced to C++ in the Principles of Programming Languages course, where I gained a foundational understanding of its syntax, memory management, and object-oriented principles.*
 - **JavaScript & Web Development:**
 - *Worked with JavaScript in the RESHAPE Lab, developing client-server applications and interactive web interfaces.*
 - **Collaborative Development:**
 - *Gained experience in collaborative development, working in teams to iteratively build and improve software through continuous feedback.*
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Other Interests

Outside of school, I enjoy reading, hiking, and taking care of my plants. I am also a big fan of board games, always looking for new challenges. These hobbies remind me to enjoy the little things and not get too caught up in life.