

Team Inventory

SeismoScan

Sponsors: Donna Shillington, James Gaherty, Christine Regalla



Mentor: Scott LaRocca

Alyssa Sombrero

Brady Wisniewski

Noah Carges

Thomas Rotchford

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This document introduces the members of our team and summarizes the knowledge, skills, and experience each person contributes.

Brady Wisniewski

Computer Science

Laramie, WY



Education:

Desert Ridge High School (2018-2022): Mesa Arizona with a 3.89 (Unweighted) GPA

Northern Arizona University (2022-Present): CS 570* (Artificial Intelligence), CS 421 (Algorithms), CS 386 (Software Engineering). *in progress

Work Experience:

Lumberjack Mathematics Center (2022-Present): Organizational, Leadership, and Excel skills

Skills:

APIs: Ability to organize, store, and do calculations using API data that sees constant changes.

Data Organization: Feel strong about my ability to store, manage, and understand data.

Website Building: Have practice using base HTML, node, and flask-based web applications

Other Interests:

Music: I really enjoy playing music, I play guitar almost every day and was part of multiple music performance groups throughout my life.

Hiking: I aim to hike almost every weekend and hope to do Humphries by the end of year.

Games: Playing games is the way I keep in touch with my friends back home and do it weekly.

Maps: Dissecting maps is a fun hobby of mine and was one of the big draws of this project.

Alyssa Sombrero

Applied Computer Science

Kayenta, AZ



Education:

Monument Valley High School (2018 - 2022) in Kayenta with a unweighted grade of 3.68

Northern Arizona University (2022 - Present) in Flagstaff.

Relevant courses are: Artificial Intelligence CS470, Data Structures CS249, Operating Systems CS480

Skills:

- **Coding Language:** Foundational knowledge of utilizing coding softwares (Python, C, HTML, Node) and how to utilize each programming language to its fullest potential.
- **Data Management:** Understand how to manage and manipulate different data types inputted by another machine to be stored in a data management system for future use.
- **Algorithms:** Gained knowledge and a better understanding on how to implement an algorithm in a system, as well as knowing when to add it in.

Other Interests:

- **Creating Art :** I enjoy working with Watercolor media, Alcoholic markers, Acrylics, and Digital during my free time. I utilize my digital drawing skills to create stickers, prints, and acrylic charms.
- **Reading Philosophy and Thought-provoking Books :** I like to bypass time by engaging in philosophical books like 'Art of War', 'Tao Te Ching', 'Last days of Socrates'. The books I enjoy analyzing and reading are 'Grendel', 'Catcher in the Rye', 'Damien', and 'The Divine Comedy'.

Thomas Rotchford

Computer Science

Phoenix, AZ



Education:

North Phoenix Prep: 3.73 (Unweighted) GPA

Northern Arizona University (2021-Present)

Relevant Coursework: CS386(Software Development), CS450(Parallel Programming), CS480(Operating Systems)

Skills:

Software Development Process: Experienced with the full development lifecycle, primarily for web applications, including design, implementation, and deployment.

Version Control: Proficient with Git/GitHub for collaboration, branching, and maintaining clean commit histories.

Testing & Debugging: Familiar with writing unit tests, debugging code, and using tools to ensure software reliability.

Other Interests:

Rock Climbing and Crag Development: I spend most of my spare time bouldering or climbing with ropes, scouring the internet and local libraries for forgotten climbing info, and looking at google maps to find new boulders to hike to and establish.

Cooking: I enjoy making new recipes and cooking for people in general. Most recently I have started making sourdough bread from scratch.

Noah Carges

Computer Science

Ewa Beach, HI



Education:

Stuttgart High School - 3.8 GPA

Louisiana State University (2020-2022)

Colorado State University Global (2022-2023)

Northern Arizona University (2023-present): CS 345 (database systems)

Work Experience:

Internship with biomechatronics: Worked with the exoskeleton gui, attempting to plot data at fast refresh rates and interpolation.

Skills:

Software Development: Experience with a variety of programming languages and tools through courses, projects, and internships.

Algorithms: Strong background in algorithm design and analysis (earned an “A” in the university algorithms course), with a passion for applying computational problem-solving.

Project Management: Skilled at organizing timelines and deliverables, ensuring efficient and collaborative progress in academic and professional settings.

Team Collaboration: Strong communicator and collaborator with experience keeping teams aligned on technical and project goals.

Problem Solving: Enthusiastic about tackling complex challenges, whether through debugging, process improvement, or developing innovative technical solutions.

Other Interests:

Music: I enjoy listening to, playing, and creating music. I play ukulele, piano, saxophone, and I also do vocals.

Sports: I used to wrestle and golf for about 3 years and I really enjoyed the types of sports where it was a mix between team and individual goals.

