



Team Inventory

February 3, 2024

FloodBusters

Sponsored By: Dr. Eck Doerry

Mentor: Vahid Nikoonejad Fard

**Members: Dylan Anderson, Jennie Butch, Noah Gooby
Nathan Hill, Jade Meskill**

Overview:

This document is our team inventory that provides a team description. The team description is our team members' backgrounds, technical skills, and relevant information on each member.

Jennie Butch
(jvb58@nau.edu)



Major: Software Engineering

Hometown: Goodyear, AZ

Education

High School: Verrado High School, GPA 3.8

Bachelor's Degree: Northern Arizona University, GPA 3.3

Relevant Coursework at Northern Arizona University:

- CS 312 - Web Programming II
- CS 345 - Database Systems
- CS 386 - Software Engineering I

Work Experience

- Undergraduate Research Software Tester
 - Conducted thorough regression testing on an in-development application, meticulously documenting and evaluating every test outcome.
- Teaching Assistant for CS 136
 - Graded and assisted students with their understanding of how to use C and implement the Four Step Process into their coding.

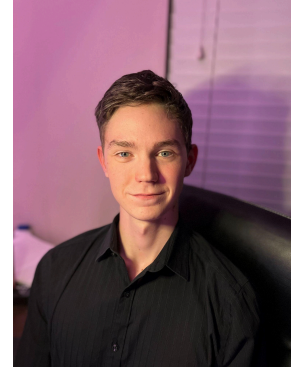
Skills

- Front End Development - Developed through courses at Northern Arizona University.
- Quality Assurance - Developed by taking leadership roles throughout high school and college to ensure the quality of the material being turned in.
- Adaptable - Developed by group projects throughout my time at Northern Arizona University.
- Languages: HTML/CSS, C/C++, Python, and MySQL

Other Interests

My other interests are playing video games, spending time with my friends and family, and watching movies and TV shows.

Dylan Anderson
(dia35@nau.edu)



Major: Computer Science

Hometown: Phoenix, AZ

Education:

Graduated from Desert Mountain High School
Senior at Northern Arizona University

Relevant Coursework at Northern Arizona University:

- CS386 - Software Engineering I
- MAT316 - Introduction to Linear Algebra
- CS305 - Computing Tools III

Work Experience:

- Software Engineering Intern at Printronix Auto ID / Taiwan Semiconductor
 - Designed and programmed a tool to automate Testing of the sequence of RFID printers
- Software Engineering Intern at Stealthbits Technologies / Netwrix
 - Wrote scripts for load testing with K6 and Locust

Skills:

- User interface development - Took multiple graphic design courses as well as developing a user interface for Printronix Auto ID test automation tool
- Testing Automation - Developed a test automation tool from scratch for Printronix Auto ID as well as load testing scripts for Stealthbits Technologies
- Languages: Python, Java, JavaScript, C, C++

Other Interests:

My other interests are urban/transportation planning, snowboarding, reading, and mountain biking.

Noah Gooby
(njg234@nau.edu)



Major: Computer Science

Hometown: Flagstaff, AZ

Education

High School: Flagstaff Arts and Leadership Academy

Bachelor's Degree: Northern Arizona University, GPA: 3.94

Relevant Coursework at Northern Arizona University:

- CS 480 - Operating Systems
- CS 312 - Web Programming II
- CS 345 - Database Systems
- MAT 316 - Linear Algebra

Work Experience

- Software Engineer Intern, Full Stack - Simtable LLC
 - Designed and developed an interactive educational website hosting wildfire simulation models using JavaScript, HTML5, CSS3, and Google Firebase
- Undergraduate Research Assistant - Northern Arizona University

Skills

- Full stack development - Simtable, Northern Arizona University
- Debugging, refactoring - Simtable, Northern Arizona University
- Agile methodologies - Northern Arizona University
- Languages: C/C++, C#, Python, JavaScript/TypeScript, PHP, SQL, R, HTML/CSS
- Frameworks: Express.js, Svelte, Unity

Other Interests

My other interests are PC video games, Cooking, and Competition shooting.

Jade Meskill

(jim245@[iris.]nau.edu)

Major: Applied Computer Science

Hometown: Queen Creek, AZ

Education:

High School: Casteel High School, 3.64 GPA

Bachelor's Degree: Northern Arizona University, 3.62 GPA

Relevant Coursework:

- **CS 345** - Database Systems
- **CS 386** - Software Engineering
- **CS 460** - Computer Networks

**Work Experience:**

- Software Developer, D2 Surveying (Oct 2020 - Oct 2021)
 - Developed numerous programs to parse large amounts of geographic/topological data.
 - Administered various systems (FreeBSD server, file shares, FTP server)
- Undergraduate Researcher, NAU (January 2024 - Current)
 - Developing Python scripts to parse large amounts of geographical data relating to countries and their subdivisions.

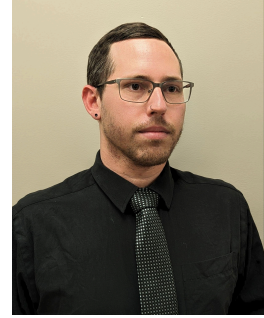
Skills:

- **Containerization:** Docker (Compose), Kubernetes (K8s) - Personal projects, Docker is Intermediate, and Kubernetes is a Novice
- **Languages:** Bash, C, C++, Go, Java, JavaScript, Python - Classes, personal projects, and/or work experience. Generally Intermediate-level

Other Interests:

My other interests are animal husbandry, cooking, gaming, gardening, reading, and self-hosting.

Nathan Hill
(ndh89@nau.edu)



Major: Applied Computer Science

Hometown: Phoenix, AZ

Education

Bachelor's Degree: Northern Arizona University, GPA: 3.2

Relevant Coursework:

- CS 312 - Web Programming II
- CS 345 - Database Systems
- CS 386 - Software Engineering I
- CS 480 - Operating Systems

Trade School: St. Anthony Hospital Paramedic Academy, Lakewood, CO

- Paramedic License, February 2015 - GPA: 3.98

High School: Mountain Pointe High School, Ahwatukee, AZ

- Diploma, May 2010 - GPA: 3.8

Work Experience

- W.L. Gore and Associates, Engineering Technician, Flagstaff, AZ (01/20-Current)
 - Image analysis, 3D volume reconstruction, advanced image dimensional analysis
 - Conducted data review meetings and communicated technical information to customers/other teams
 - Developed VBA-based project request application with automated emails, folders, and document creation.
 - Assisted with restructuring and modifying the uCT lab MS Access database
 - Partnered with Process Engineer to develop an automated Python script and SQLite server for PDF conversion and storage

Skills

- Full Stack Web Development - Udemy Course and Northern Arizona University
- Database Architecture and Management - Northern Arizona University and W.L. Gore
- Agile Methodologies - Northern Arizona University and W.L. Gore
- Android Application Development - Personal Projects
- Embedded/PLC Programming - Personal Projects, W.L Gore
- Languages: C, C++, C#, Java, JavaScript, PHP, SQL, Python, Julia

Other Interests

My other interests include hiking, video games, spending time with my dog, 3D printing, and cooking.