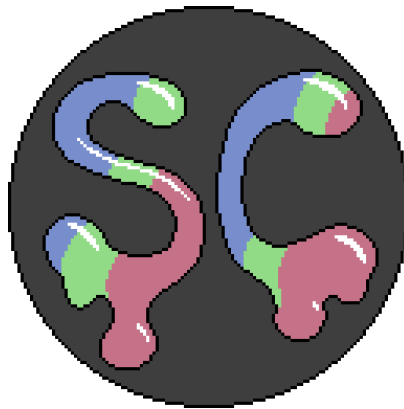# Team Inventory

Team: Sugar Coded
Sponsor: Dr. Natalia Dmitrieva
Mentor: Dr. Eck Doerry
Team Members: Chantz Spears, Julian Shak, John Bassler, and Alfonso Martinez

September 21, 2017

Overview

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

Julian Shak

Computer Science Major, Mathematics Minor

Hometown: Sierra Vista, AZ

EDUCATION

Seoul American High School, Seoul, Korea

Aug 2010 - May 2012

Buena High School, Sierra Vista, AZ

Aug 2012 - May 2014

High School GPA: 3.67

Northern Arizona University, Flagstaff, AZ

Aug 2014 - May 2018

Upper division coursework –

CS 399: Mobile Applications, CS 345: Database Management, CS 386: Software Engineering, CS 421: Algorithms, CS 460: Computer Networks, CS 480: Operating Systems, CS 315: Automata Theory, CS 396: Principles of Languages, CS 301: Computers and Society, CS 499: Research Methods for Software Engineering, MAT 316: Linear Algebra, MAT 320W: Foundations of Mathematics

WORK EXPERIENCE

NAU ITS – OnBase

Sep 2016 - Current

Work with NAU departments on converting paper forms to electronic forms and electronic workflows.

OTHER INTERESTS

I am very interested in practical and useful software development. I would like to develop software of more practical use, with room for possible creativity as well.

SKILLS

- **Database Management**
  - CS 345 – MySQL database management/querying techniques
  - CS 212 – Built personal website that used MySQL database for storage
  - CS 399 – Used Google's Firebase database for backend storage for a mobile shopping cart application
- **Mobile Application Development**
  - CS 399 – Used Google's Firebase database for backend storage for a mobile shopping cart application
- **Web Development**
  - CS 212 – Built personal website that used HTML, Javascript, PHP, and CSS
  - CS 386 – Worked with group to build Student/Teacher learning portal

Alfonso Martinez

Computer Science Major

Hometown: Phoenix, AZ

EDUCATION

Saint Mary's High School, Phoenix, AZ
Aug 2010 - May 2014

High School GPA: 3.76

Northern Arizona University, Flagstaff AZ
Aug 2014 - May 2018

Upper division coursework –

CS 301: Computers and Society, CS 315: Automata, CS 345: Principles of Database Systems, CS 386: Software Engineer, CS 396: Principles of Languages, CS 399: Mobile Applications, CS 460: Computing Networks, CS 470: Intro to Intelligent Systems, CS 477: Advance User Interfaces, CS 480: Operating Systems, MAT 316: Intro to Linear Algebra, ENG 302W: Technical Writing

WORK EXPERIENCE

NAU ITS – North Desktop Support
Sep 2014 – Current

Provide faculty and staff with technical support. Create OS images to standardize department computers.

OTHER INTERESTS

I am interested in Network Security. I would like to work on implementing physical and software preventative measures to protect underlying networking infrastructures.

SKILLS

- **Data Structuring**
  - CS 249 – Implementation of Java Data Structures; Arrays, Linked Lists, Trees
  - EE 222 – Implementation of C Data Structures; Arrays, Linked Lists, Trees

- **Database management**
  - CS 345 – MySQL database management w/ server queries

- **Mobile Application Developement**
  - CS 399 – Implementation of Android studio; Used Meteor JS to handle frontend and backend functionality

John Bassler

Computer Science Major, Mathematics Minor

Hometown: Anchorage, AK

EDUCATION

South Anchorage High School, Anchorage, AK

Aug 2009 - May 2013

Northern Arizona University, Flagstaff, AZ

Aug 2013 - May 2018

Upper division coursework –

CS 315: Automata Theory, CS 345: Database Systems, CS 386: Software Engineering, CS 399: Mobile App Development, CS 421: Algorithms, CS 460: Computer Networks, CS 465: Distributed Systems
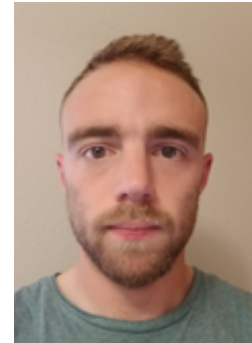
WORK EXPERIENCE

ArcTerra Field Technician

Inspected and tested residential leach fields and wells, coordinated and oversaw leach field construction.

May 2016 - August 2016, May 2017 - August 2017

OTHER INTERESTS

I greatly enjoy assisting in coaching and leading the Men's Club Soccer Program here at NAU. I also volunteer as a retreat staffer at the Holy Trinity Catholic Newman Center on campus.

SKILLS

- **Mobile app development**
  - CS 386 – Implemented a basic fitness/diet tracking application in Android Studio
  - CS 399 – Implemented a basic memory game with C# in Unity
- **Web Development**
  - CS 212 – Created a personal website using HTML, CSS, Javascript, PHP, and MySQL
  - CS 460 – Practiced low–level TCP and UDP server communication
  - CS
- **Database Management**
  - CS 345 – Created and managed databases in MySQL
  - CS 386 – Used MySQL to store user and admin data for a fitness/diet tracking application

Chantz Spears

Computer Science Major, Mathematics Minor

Hometown: Desert Hills, AZ

EDUCATION

Boulder Creek High School, Anthem, AZ

Aug 2010 - May 2014

High School GPA: 3.96

Northern Arizona University, Flagstaff, AZ

Aug 2014 - May 2018

Upper division coursework –

CS 399: Mobile Applications, CS 345: Database Management, CS 386: Software Engineering, CS 301: Computers and Society, CS 315: Automata Theory, CS 396: Principles of languages, CS 421: Algorithms, CS 460: Computer Networks, CS 480: Operating Systems, CS 477: Advanced UI, CS 499: Software Testing, BIO 300: Human Biology, ENG 302W: Technical Writing, MAT 316: Linear Algebra, MAT 320W: Foundations of Mathematics, VC 408: Field Work

WORK EXPERIENCE

State Farm – Systems Intern

May 2017 - August 2017

Designed and implemented Qlikview and Qliksense dashboards for visual representations of data from reporting repositories. Led orientations for business partners to learn self -service development with Qliksense. Created virtual reality touring application using A-frame and javascript.
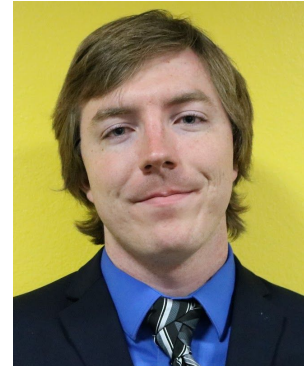
NAU's IVR Lab – Software Programmer

December 2016 - May 2017

Utilized virtual reality equipment, Unreal Engine 4, blueprints, and C++ to create interactive experiences, learning tools, and games.

OTHER INTERESTS

I enjoy creating applications that are intuitive and enjoyable for users by placing user interfaces as one of the top priorities. My favorite hobby is traveling.

SKILLS

- **Web Development**
  - CS 212 – Built personal website using HTML, CSS, PHP, MySQL, and Javascript
  - CS 386 – Built a recipe finder web app based on ingredients user had in kitchen. Utilized PHP, HTML5, bootstrap
  - CS 477 – Team created a web application that let users look for others around them who wanted to group up for different activities
- **Mobile Development**
  - CS 399 – Built multiple apps using android studio, meteor framework, Materialize CSS framework
- **Virtual Reality**
  - IVR LAB – Worked with artists in Unreal Engine to create multiple interactive and educational applications
  - State Farm – Used Google's A-frame to create a mobile virtual tour application