

Team digiLearn

Team Inventory



Doctor Morgan Vigil-Hayes
Volodymyr Saruta
Caitlin Abuel
Grave Shirey
Israel Bermudes
Kristine Hermosado
Sebastian Kastrul

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Overview

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

Caitlin Abuel

*Applied Computer Science
Surprise, AZ
csa73@nau.edu*



Education

Valley Vista High School AUG 2013 - May 2017 • GPA: 4.0

Northern Arizona University AUG 2017 - Present

- Expected Graduation 2021
- Relevant Courses
 - CS399 - Mobile App Development
 - CS386 - Software Engineering
 - CS499 - Open Source Software

Experience

Undergraduate Research | NAU JAN 2020 - Present

- Responsibilities:
 - Translate dialogue to adhere to different predetermined registers using a Python script.
 - Perform statistical analysis on various frequencies related to the prevalence of certain linguistic characteristics using R.

CS Teaching Assistant | NAU SEPT 2019 - MAY 2020

- Responsibilities:
 - Evaluate students' quizzes for proficiency in the understanding of operating systems concepts.
 - Analyze students' code for readability and efficiency in implementing various data structures.
 - Performed lab lectures for foundational computer science concepts such as polymorphism and inheritance.
 - Provided supplemental classroom support to other CS students using the Java language.
 - Assisted students one-on-one with lab projects during scheduled office hours.

Skills

Programming Languages

- *Kotlin* - Developed a simple android app to calculate GPA
- *C* - Designed an operating system simulator demonstrating concepts such as scheduling, memory management, I/O, and concurrency.
- *Java* - Implemented various data structures to hold sample data.

Personal Projects

- *Pi-Hole* - Implemented a network-level DNS sinkhole using a raspberry pi

Interests

- Digital art and design

Grace Shirey

Computer Science

Denver, Colorado

Gas236@nau.edu



Education

Chaparral High School AUG 2012 – MAY 2016 • GPA: 3.3

Northern Arizona University AUG 2016 - PRESENT

- Expected Graduation 2021
- Relevant Courses:
 - CS386 – Software Engineering
 - CS399 – Mobile App Development
 - CS212 – Web Programming

Experience

Developer Intern | *Samba Safety* MAY 2018 – AUG 2018

- Responsibilities:
 - Front-end web development using HTML/CSS/JavaScript and the Vue.js framework with some minor back-end development in Java.
 - Leveraged source control using Git and was responsible for unit testing with the Jest testing framework.

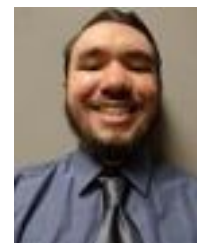
Skills

Programming Languages

- *Python – used in Software Engineering*
- *HTML/CSS – used in creating and laying out websites*
- *JavaScript – used for developing websites*
- *Android – used for creating mobile applications*
- *Java – used for backend development*

Israel
Bermudes

Computer Science
Phoenix, Arizona
llb8@nau.edu



Education

Camelback Montessori College Prep. 2011 - 2016

- GPA: 3.8

UNIVERSITY 2016 - Present

- Expected Graduation 2021
- Relevant Courses:
 - CS 460 – Computer Networks
 - INF 638 – Cryptography and Public Key Infrastructure
 - CS 249 – Data Structures

Experience

Software Developer Intern | Charles Schwab Corporation June 2020 – August 2020

- Responsibilities:
 - Java development
 - REST service development
 - Quality Assurance testing

Teachers Assistant | Northern Arizona University 2018 - 2020

- Responsibilities:
 - Grading homework, quizzes, and test
 - Assisting students in open office hours on campus

Skills

Programming Languages

- *Java – A significant portion of coursework at NAU, and development work at Charles Schwab is done in Java.*
- *C – In CS 480, C was used to model a functional operating system to understand resource management.*
- *Python – While CS 460 is the most recent class to use Python it is a syntactically simple language to pick up again.*

Personal Projects

- *Totient – A decentralized, security and privacy focused messaging app that has been in development since 2017.*

Kristine Mae
Hermosado



Computer Science
Apache Junction, AZ

Kh2336@nau.edu

Education

Apache Junction High School August 2013 – May 2017

- GPA: 3.9

Northern Arizona University August 2017 - Present

- Expected Graduation 2012
- Relevant Courses:
 - CS399 – Mobile App Development
 - CS212 – Web Development
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Experience

Web Programming | CS212 August 2018 - December 2018

- Responsibilities:
 - Created a usable website using HTML, JavaScript, and SQL.
 - Understand the differences of the front-end and back-end work.

Skills

Programming Languages

- *Java – Created programs that uses different kinds of data structure and algorithms.*
- *Python – Learned object-oriented principles through Python.*
- *Kotlin – Created a mobile project using Kotlin.*

Interests

- *Creating effective and appealing designs for websites and mobile applications.*
- *Different ways to set up a network connection.*

Sebastian Kastrul

*Computer Science
Phoenix, Arizona
smk376@nau.edu*



Education

Sunnyslope High School 2012- 2016 • GPA: 3.8

UNIVERSITY DATE - DATE

- Expected Graduation 2021
- Relevant Courses:
 - CS460 - Computer Networks
 - CS399 - Mobile App Development
 - CS312 - Web Programming 2

Experience

Undergraduate Research Assistant | NAU - Floodaware Project May 2020 - Present

- Responsibilities:
 - Maintain and innovate upon the hardware and software of a proprietary smart camera system. ◦ Develop software for a variety of purposes, including web scraping and image processing.

Teaching Assistant | NAU - CS249 and CS315 January 2019 - May 2020

- Responsibilities:
 - Evaluate students' theoretical machines and proofs for mastery over automata theory concepts. ◦ Analyze students' code for readability, good programming practices, and sound logic in the implementation of data structures
 - Tutored students on advanced practical and theoretical computer science concepts.

Skills

Programming Languages

- **Kotlin / Android Studio** - Developed a fully functional note-taking application for Android and a prototype distributed messaging application.
- **C** - Built a simulator of a primitive operating system including resource and memory management, scheduling, and preemptive process switching.
- **Python** - Developed in python for a variety of purposes including image processing, integrated systems, web scraping, and more.
- **MEAN Stack** - Developed a simple server to distribute dynamic and templated web pages.

Interests

- Visual communications and graphic design.
- Ethically designed and truly private software and digital communication.