

WILLIAM ANDERSON

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EDUCATION

Bachelor of Science in Software Engineering, The University of Texas at Arlington

August 2022

SKILLS

Languages: Python, Java, C/C++, C#, HTML, CSS, JavaScript, MySQL, NoSQL

Tools: REST, React, Angular, Jupyter Notebook, Android Studio, JUnit, JaCoCo, Google Firebase

Methodologies: Agile, Scrum, UML, MVC, Object-Oriented Programming, Source Control (Git)

Operating Systems: Linux (Ubuntu, Fedora, etc.), macOS, Windows

PROJECTS

Automated Vending and Reservation System *React Native, NoSQL, C/C++, Python, Google Firebase*

- Designed, developed, and lead a team in the creation of a proof-of-concept vending machine and a mobile app reservation system. Implemented a web-based, non relational database to manage orders and customers. Created a User Interface for the physical machine used for demonstration.

Auto-Learn *Java, Python, Android Studio, Jupyter, Google Firebase, NoSQL*

- Worked within a team to develop an Android app to identify different types of vehicles using image labeling of photos. Created a machine-learning model to predict a vehicle type from one of six optional categories. Used object-oriented principles such as inheritance, encapsulation, abstraction and polymorphism in development of the app.

Soil Sample Return Module *OOP, UML, Arduino, Python, C/C++*

- Worked together with a multi-disciplinary engineering team to develop a remote-controlled rover attachment to collect soil samples for proof of life as part of the University Rover Challenge. Developed the software design specifications using a model view controller, state design, and other object-oriented software design patterns.

Personal Website *Angular, HTML, CSS, JavaScript, Github Pages*

- Developed a personal website using HTML, CSS and JavaScript to showcase selected projects, personal information, and contact links. Used a cloud-based website hosting service through GitHub in order to make the website publicly accessible on the internet. Additionally hosted an Unbeatable Tic-Tac-Toe game that was created in another project within the website.

Towing Capacity Project *Angular, Google Firebase, HTML, CSS, JavaScript*

- Developed a website using Angular and a web-based, non-relational database to allow for users to select their make, model of truck or SUV and return the towing capacity of their selected vehicle. Used a cloud-based hosting service to host the website.

VOLUNTEER EXPERIENCE

Toys For Tots Foundation

December 2016

Houston Food Bank

April 2017