Winston Shields
757-560-9788 | winstonjshields@gmail.com | https://www.linkedin.com/in/winston-shields-019b01188/
https://github.com/WinstonShields | https://winstonshields.github.io/

EDUCATION

Old Dominion University | Norfolk, VA   August 2021
Bachelor of Science in Computer Science   GPA: 3.64
Major: Computer Science
Minor: Computer Engineering

Old Dominion University | Norfolk, VA   August 2022
Master of Science in Computer Science   GPA: 3.78
Major: Computer Science

RELEVANT COURSEWORK

Software Engineering, Data Structures & Algorithms, Object Oriented Programming, Principles of Programming Languages, Operating Systems, Intro to Unix, Discrete Structures, Theoretical Computer Science, App Development for Smartphones, Internet Concepts, Web Programming, Artificial Intelligence, Computational Methods, Game Development, Fundamentals of Computer Engineering, & Information Retrieval

RELEVANT EXPERIENCE

Torrential Data Solutions | Virginia Beach, VA   May 2021– August 2021
Software Engineer Intern

- Added and fixed features on legacy scan client software with C#.
    - Made it so that settings will remain saved on the user's computer even if the software is updated.
    - Made it so that if the scanning job is interrupted, the user can continue scanning where they were left off.
    - Added warning if user tries scanning a document of a large size.
- Added and fixed features on legacy manager for easily handling the SQL databases with C#.
    - Added panel that allows an employee to enable a feature called "Quick Link" through the manager.
- Fixed features on the frontend for the web Document handling website with Vue.js.
    - Made it so that documents can be sorted by datetime regardless of how the dates are formatted.
    - Fixed issue where documents were not being split properly when the "Split document" button was clicked.
    - Fixed issue where number of words left were not displayed.
- Used Azure DevOps to create and handle user stories, bug fixes, and creating pull requests.

Old Dominion University | Norfolk, VA   December 2020 – Present
Undergraduate Research Assistant

- Built patent figure search engine and scholarly article search engine.
    - Designed website frontend and visuals with HTML, CSS, & JavaScript.
    - Designed backend that handles searching and user registration with PHP, Elasticsearch, & MySQL
- Developed fake scientific claims analysis website.
    - Designed frontend layout with React.js and backend for searching and user registration with Node.js, MySQL, & Elasticsearch

Old Dominion University | Norfolk, VA   September 2019– August 2020
Undergraduate Research Assistant

- Computer Vision based behavioral imaging with clinical measures of Autism Spectrum Disorder.
    - Debugged and added to a C# program that collects data on test subjects.

Class Projects, Old Dominion University | Norfolk, VA

- Super Mario Bros. first level recreation with Unity Game Engine and C#.
    - Used C# to write scripts for player, enemy, and camera movements.
    - Wrote C# scripts to trigger animation sequences, when necessary, for example, Mario stomping a Goomba or hitting a block.
    - Handled the health of Mario and his enemies with a C# scripts.
- Android Fitness application that allows logging workouts and sharing workouts with friends.
    - Used Android Studio to code workout logging, scheduling, and sharing workouts with friends functionality.
    - Designed activity layouts with XML.
    - Wrote code to store data in SQLite and Firebase Cloud Firestore database.
- Reproduce an inputted image with triangles by using a genetic algorithm with Python.
    - Used a fitness function to compare a population of randomly generated images to the target image to select the best images for reproduction.
    - Used a crossover function to combine the traits of the two best images to look closer to the target image.

SKILLS

- C++, Java, Python, JavaScript, HTML, CSS, PHP, SQL (MySQL/SQLite), C# (.NET), React.js, Node.js
- Android Studio, Firebase, Unity, Git, Linux