

Winston Shields

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<https://github.com/WinstonShields>

EDUCATION

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

August 2021
GPA: 3.64

Old Dominion University | Norfolk, VA
Master of Science in Computer Science
Major: Computer Science

August 2022
GPA: 4.0

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

RELEVANT EXPERIENCE

Torrential Data Solutions | Virginia Beach, VA
Software Engineer Intern

May 2021– August 2021

- 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
Undergraduate Research Assistant

December 2020 – Present

- Built a patent figure and scholarly article search engine.
 - Designed website layout and visuals with HTML, CSS, & JavaScript.
 - Used PHP with MySQL for storing user credentials, liked figures and articles, tags, and search history.
 - Used PHP for email verification and starting user sessions.
 - Used PHP with Elasticsearch for querying and indexing json arrays containing patent figure and scholarly article metadata.

Old Dominion University | Norfolk, VA
Undergraduate Research Assistant

September 2019– August 2020

- 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.
 - Wrote TCP socket scripts with Python to synchronize the experimental computer with the controlling computer.

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

- Proficient in C++, Java, Python, JavaScript, HTML, CSS, PHP, SQL (MySQL/SQLite), & C# (.NET)
- Unix/Linux, Git version control
- Android Studio, Firebase, Unity