

Jarron A. Douglas

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EDUCATION / ACTIVITES

THE COLLEGE OF NEW JERSEY

- Bachelor of Science in Computer Science

Ewing, NJ

May 2024

THE COLLEGE OF NEW JERSEY (Extra Curricular)

- Varsity Football | N.E.S.B.E. | P.M.P.

Aug 2020 - Present

Academic / Personal Projects

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- **(IRS SSN Iterator):** Implemented a vector, doubly linked list, dynamic array, and a hash table to retrieve a series of social security numbers followed by a character indicating whether to delete, retrieve or insert from a file with up to 500k entries.
 - **(2-D Array Word Search):** Created a program to search words in a 2D array by finding the words listed in the command line of the terminal. Treating each direction as a string, the program checks all directions for equivalent strings to find the missing word in the matrices. When all the words are found, the unimportant characters are asterisked out to display the correct wordsearch to the user.
 - **(Basic Computer):** Working within a group of 3 we implement all parts needed for the basic computer. Consisting of an ALU, RAM, general purpose registers, flipflops, and more and maintaining both options of IO being both busy wait and interrupts. The program running on a x86 assembly code and using logic works to create the system, my contributions was the implementation of control logic, flip flops as well as the timing signals and sequence counter.
 - **(Assembly Burger Shop):** Used assembly language to implement a program that's purpose is to act as a burger shop. Program starts with a set amount of ingredients and keeps track of orders sales and uses interrupts to calculate the creation of burgers as well as closing shop when ingredients are unavailable and prompting for more ingredients to come and get delivered.
 - **(Finance Tracker):** Practiced full stack development by implementing the Plaid API using Node.js and using react on the front end. Created a personal web application that tracks my bank account balances and transactions that I make and collects all the data for history and reference – acting as a personal statement file to keep better track of my spending.
 - **(Rock-Paper-Scissors Generator):** Created a fun Rock Paper Scissors Generator using C that uses the randomizer library to generate an arbitrary number between 0 and 2 and based on the user's decision upon input, the program responds correctly to the input through various if statements and outputs a message either joking with the user, congratulating them, or prompting them to play again to decide a winner. Players are also remembered through keeping data in a doubly linked list consisting of their wins, loses and draws.

Employment

Target – Fulfilment | **Walmart** – Electronics / Cart Attendant | **FedEx** – Warehouse Package Handler |

Technical Skills: Node.js | React | Plaid API | Java | C | C++ | Assembly x86 | HTML | Rust | SPARK Pro | Kali Linux | Ada Pro | Infer | Clang and GCC analyzers | Valgrind | Ubuntu | Windows |