Jarron A. Douglas

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EDUCATION / ACTIVITES

THE COLLEGE OF NEW JERSEY   **Ewing, NJ**
- Bachelor of Science in Computer Science   *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

- **(Student Schedular):** In this Ruby program, I developed an innovative event scheduling algorithm tailored for educational settings. The application intelligently processes two CSV files: one listing students along with their interests, and another detailing events with associated interest areas. The core functionality of the program lies in its ability to match students to events based on their expressed interests.

- **(Security Monitoring System):** Developed an advanced security application in Python using OpenCV, capable of detecting faces and bodies in real-time through camera feeds. Implemented Haar Cascade classifiers for accurate and efficient recognition of human features, enhancing the system's detection capabilities. Programmed the system to initiate recording upon detection, capturing footage in MP4 format, ensuring high-quality video output for security analysis. Designed an automated recording mechanism that continues for a specified duration post-detection, enhancing the capture of relevant incidents.

- **(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 | *Regal* – Floor Usher

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 | Haskell | Scala | Clojure