Ikechukwuka Ofili

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SKILLS

Programming Languages: C, Java, C++, x86_64 and ARM assembly, Haskell, Verilog, Python, Bash, Rust, Kotlin, JavaScript, SQL, R, OCaml, Common Lisp
Tools: Git, LaTeX, MySQL, Java Swing, Android Studio, Debian Linux, PHPMyAdmin

WORK EXPERIENCE

Homework In a Cafe   **Flower Mound, TX**
Tutor   *Oct 2023 – Dec 2023*
- Tutored high school and middle school students in Math, Physics, and Chemistry.
- Helped get a student from a D- to a C in Algebra and another from an F in Physics to a B.
- Hosted an average of 3 sessions a week while in college full-time.

University of Texas at Arlington   **Arlington, TX**
CSE Undergraduate Teaching Assistant   *Jan – May 2023*
- Oversaw the progress of 50+ students in an Algorithms and Data Structures class.
- Held office hours for 6 hours a week where I explained the class concepts to students.
- Hosted occasional mock interviews and application info-sessions for interested students.
- Introduced automated downloading of students' submissions to the class.
- Collaborated with co-TAs to develop the 1st ever grading suite for this class to reduce grading times.

PROJECTS

Expense 8 Puzzle Solver   *Sep – Dec 2022*
https://github.com/ikeofilic1/walking-aid
- Developed an 8-puzzle solver in Common Lisp for an AI course, showcasing expertise in state space search algorithms.
- Implemented a spectrum of algorithms—Breadth-First, Depth-First, Uniform Cost, Depth-Limited, Iterative Deepening, A*, and Greedy algorithms—each providing a unique approach for users to solve the puzzle

File system in C   *May 2023*
https://github.com/ikeofilic1/mav-fs
- Led a team of 4 to build a command-line-interfaced index-allocated file system for a class project.
- Implemented commands such as `readfile`, which reads a file from disk into the file system, and `list`, which lists all the files in the file system.
- Wrote 5 commands out of 13 total, using Git VCS to collaborate with teammates.

Linux Shell   *Feb 2023*
https://github.com/ikeofilic1/msh
- Implemented a basic Linux shell in C and utilized expect scripts for testing.
- Learned how to spawn child processes and used that to run other programs from the shell.
- Added features like command history and changing directories.

Mav's Animal Shelter Services   *Mar – May 2022*
https://github.com/ikeofilic1/MASS
- Built an inventory system for a hypothetical pet adoption agency using Java's Swing framework.
- Implemented a fully-working GUI to add new clients and display all adopted animals in the system.
- Employed Scrum Agile methodology for the software development cycle.

EDUCATION

The University of Texas at Arlington   **Arlington, TX**
Bachelor of Science in Computer Engineering, Minor in Mathematics   *May, 2024*
- **Cummulative GPA**: 3.61, **Engineering GPA**: 3.8
- **Awards** & **Honors**: Freshman Distinction Roll (4.0 GPA in first 30 hours), Dean's List Spring 2022, Outstanding Professional Computer Engineering Student Award Spring 2023, NSCS, Alpha Lambda Delta, and Sigma Alpha Lambda Recognition for Outstanding Performance

INTERESTS

FPGA technology, Machine learning, AI, Computer hardware/software design, Cybersecurity and IoT, Playing the bass guitar, Skateboarding