

Ikechukwuka Ofili

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SKILLS

Programming Languages: C, Java, C++, x86_64 and ARM assembly, Haskell, Verilog, Python, PHP, Bash, Rust, Kotlin, JavaScript, SQL, R, Common Lisp

Tools: Git, L^AT_EX, MySQL, Java Swing, Java Spring JPA, Android Studio, Debian Linux, PHPMyAdmin

WORK EXPERIENCE

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.
- Worked with the instructor to refine the entire class structure for future iterations of the course.
- Introduced automated downloading of students' submissions to the class.
- Collaborated with fellow TAs to develop the 1st ever grading suite for this class thereby reducing grading times drastically.

PROJECTS

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.
- Designed the command parsing and running systems by prioritizing scalability.
- Coded 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

December, 2024

- **Cummulative GPA:** 3.644, **Engineering GPA:** 3.8
- **Relevant Coursework:** Algorithms and Data Structures, Operating Systems, Object-oriented Programming, Assembly Language Programming, Intro to Linear Algebra
- **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