RAFEL TSIGE

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EDUCATION

University of Texas at Arlington, *Arlington, TX*
Bachelors of Computer Science *December 2022*

TECHNICAL SKILLS

Programming Languages: C, C++, Java, XML, SQL, Python, HTML5/CSS/Javascript
Frameworks and Software: Android Studios, Firebase, MySQL, Git
Operating Systems: Windows, Linux, MacOS
Development Methodologies: Agile, Waterfall

PROJECTS

Office Hour Simulator
- Created a multi-threading project using C that simulates a professor's office hours
- Implemented the handling of multiple classes for the same professor simultaneously as well as other functionalities

Health App
- Developed an android application that helps users keep track of their heart rates, ECG, pulse rate, etc
- Implemented on Android Studio using Java, XML, and Firebase

File System
- Wrote a user space portable indexed file system in C similar to the UNIX file system(ufs)
- Allows file manipulation and directory mobility like ufs as well as executing common commands

Heap Management
- Created a C program that manipulates memory using the 4 memory management schemes along with custom memory function implementations
- Implements a library that interacts with the operating system to perform heap management on behalf of a user process

WORK EXPERIENCE

Techno Motors *June 2021 - August 2021*
Software Engineering Intern *Addis Ababa, Ethiopia*
- Worked on the development and maintenance of the company's inventory management system
- Used Java to implement new sorting and filtering functionality as well as fixing previously existing bugs

VOLUNTEER EXPERIENCE

Yeka Terara Elementary School *June 2020 - August 2020*
Volunteer/Teacher *Addis Ababa, Ethiopia*
- Created study plans and guides to help students develop a basic understanding of English including reading, writing, listening, and speaking as well as basic Math including addition, subtraction, multiplication, and division
- Worked with other volunteers and teachers to organize and distribute donations for around 200 children
- Assisted in book drives, clothing drives and other donation events for the school