Jarret Nathan Flotildes

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Education

•Bachelor of Science in Electrical Engineering - University of Texas at Austin - Fall 2022

Skills & Technologies

•Programming Languages: Java, C, C++, Python, JavaScript
•Tools & Technologies: Git, Valgrind, Android Studio, SDL2, Unix, Ubuntu, MongoDB, Node.js, Flask
•Proficient in Algorithm Design & Analysis

Projects

• ViReader - C++ program designed to act as a text reader with a GUI developed using SDL2. Parsed text file is stylized and displayed in an easy to read format with customizability.
•PINTOS Operating System – C project that implemented a Unix-based operating system. Features implemented include synchronization, process management and the file system.
•Yash - Designed and implemented a C based shell implementing file redirection, piping and job control features.
•Scarecrow - Created an algorithm in Java to solve a dynamic programming problem in which a farmer places their scarecrow to scare away crows and maximize crops. Memoization was the primary technique to get the fastest runtime.
•Android Fitness App – Developed a fitness app using Java and AndroidStudio for Android using the agile method in a team. Implemented features include a friends list, calorie count, and Tamagotchi like capability.
• Accelerometer-powered Punching Bag – A carnival style punching bag game made with C and uses a custom PCB design we designed with EagleCad. Game, music and score were implemented using music, motion sensor, accelerometer and score display using LED arrays.
•Ebay-lite Client-Server – Created a Java app implementing client-server connections via an UI created with JavaFX and data stored onto a MongoDB server.

Work Experience

•**Bag Blitz SA** *(July 2023 - December 2023)*
  Inventory management and social media assistant
   •Recorded and managed inventory of bags and other products
   •Assisted with managing social media accounts

•**CompleteCare Home Health and Hospice** *(June 2022 - August 2022)*
  Office Clerk
   •Organized and managed files through Microsoft excel and processing office documents