Malhar Patel

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Education

University of Alberta   Jan. 2019 – May 2024
Bachelor of Science in Computer Science, Specialization Software Practice   *Edmonton, AB*

Technical Skills

Languages: Python, Java, C, RISC-V, CUDA/OpenCL, SQLite, HTML/CSS
Knowledge Of: Operating System, Computer Architecture, GPUs
Developer Tools: VS Code, Android Studio, UML, FireBase/FireStore
Technologies/Frameworks: GitHub, Git

Experience

University Of Alberta   Sep. 2021 – Dec. 2021
Teaching Assistant   *Edmonton, AB*

- Programming in C
- Help students during lab and office hours.
- Provide solutions to the lab and checking labs.

Projects

Mini Shell | *C, fork, execvp*   **Sep. 2021**

- Developed a mini shell by forking new process. That support all normal command as well as allowed processes to run in background, displayed all background running processes, allowed background processes to be stop, resume and kill.

Producer and Consumer | *C, synchronization*   **Sep. 2021**

- Learned about threads, mutex and semaphores. Producer produced jobs will consumer worked on the jobs in the mutually exclusive environment. Also maintained a log-file for jobs created and finished.

Client-Server | *C, networking*   **Sep. 2021**

- Created client-server using ports, sockets and FDSET to allow multiple clients at a time to send a message over server and receive a reply from the server. And maintain a log-file.

Gomoku | *Python*   **May 2019**

- First created a basic game where computer assigned pieces randomly but later added a smart computer with is pretty much hard for me to defeat (10x10)

TicTacToe | *Java, Android Studio*   **Dec 2021**

- Created as my first app in Android Studio. It is just a normal game played between two players. Allows reply and keeps track of score.

RollCount | *Java, Android Studio, SQLite*   **Jan 2021**

- An app to keep track of roll Counts of the dice roll. Display a histogram, average. And store in Database for future use until deleted.

QR-Code | *Java, Android Studio, FireBase/FireStore*

- An app work in progress. That allows multiple to scan QR-Code and get points from it. User can add location where they found the code, compete with other User for high score....

Relevant Coursework

- Data Structures
- Software Methodology
- Algorithms Analysis
- Database Management
- Operating System
- Computer Architecture

Leadership / Extracurricular

Dean Honor Roll   **Fall 2020 – Winter–2021**
University of Alberta