

Salu Poudel

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EDUCATION

Bachelor of Science in Computer Science

December 2024

University of Texas at Arlington

Relevant Coursework: *Algorithms & Data Structures, Computer Organization & Assembly Language, Object-Orientated-Programming, Discrete Structures, Intro to Software, Operating Systems, Database*

SKILLS

Programming Languages: Java, Python, SQL, HTML/CSS, C/C++

Software & Tools: JUnit, GitHub/Bitbucket, Virtual Machine, MATLAB, Jira

PROJECTS

Shell | C

- Developed a command-line shell called “Mav Shell (msh),” influenced by popular Unix shells such as Bourne Shell (bash), C-Shell (csh), and Korn Shell (ksh).
- Designed and implemented an efficient process forking mechanism to manage child processes during execution.
- Streamlined command execution, optimized system resource utilization, and ensuring uninterrupted operation comparable to csh and bash until terminated by the user.

Chat Box | C

- Developed a chat box within a terminal environment, allowing a single computer to function as both the client and server through appropriate configuration.
- Implemented client-server communication, enabling clients to initiate conversations with the server, similar to customer service chat boxes used by companies.

Guessing Game | Java

- Developed a secure login system that requires users to input a specific password for subsequent page access.
- Enhanced program security and functionality by incorporating a random picture generation on the subsequent page. Users must provide the correct answer to proceed.
- Utilized various Java libraries to achieve optimal program performance and user experience.

Personal Website | HTML/CSS, GitHub

- Created a website to showcase personal information, including features like hyperlinks to LinkedIn, GitHub, and a downloadable PDF version of the resume.
- Developed the website using HTML and continuously updating it as new features are identified and incorporated.
- Used GitHub to facilitate the maintenance and updating of various features.

Dictionary | C

- Designed a dictionary-like application using a hashing algorithm to execute efficient search operations on a list of items, responding to user input with relevant information.
- Optimized code performance by employing separate chaining, a technique that utilizes linked lists instead of open addressing, resulting in faster and more precise search results.

WORK HISTORY

Amazon, FC-associate - Irving, TX

January 2022 - July 2022

- Efficiently and accurately processed and fulfilled customer orders for distribution, leading to timely deliveries and achieving a high rate of customer satisfaction.
- Collaborated daily with managers to optimize work activities, driving both individual and team productivity to meet and often surpass operational goals.

ORGANIZATIONS

• ACM - Association for Computing Machinery

• SASE - Society of Asian Scientists and Engineers