SALU POUDEL

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Software Engineer | US-Citizen

EDUCATION

University of Texas at Arlington   **December 2024**
Bachelor of Science in Computer Science

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

SKILLS

Programming Languages:	Python, C/C++, Java, HTML/CSS, SQL
Software & Tools:	JUnit, GitHub/Bitbucket, MATLAB, Jira, Virtual Machines

PROJECTS

Linux Shell | *C*
- Developed the "Mav Shell (msh)," a unique command-line shell influenced by prominent Unix shells like Bourne Shell (bash), C-Shell (csh), and Korn Shell (ksh).
- Achieved consistent and efficient command execution by streamlining processes and optimizing resources, ensuring performance remains uninterrupted operation comparable to csh and bash until terminated.
- Boosted user command efficiency by refining internal algorithms and leveraging optimized system libraries, resulting in a **40% reduction in average command processing time**.

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 user experience and **improved optimal performance by 85%.**
- **Reduced user authentication errors by 60%** through the implementation of intuitive user feedback mechanisms

Chat Box | *C*
- Developed a chat box within a terminal environment, allowing both a single or two sperate computers 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.
- **Improved chat response times by 50%** by reducing message latency which optimized network protocols and streamlining the message processing algorithm.

ExFAT File Utilities | C
- Engineered advanced functions for file management in a disk image environment, including file removal, boot sector integrity checks, cluster deletion, and efficient file and directory searches within cluster chains.
- Used **Agile methodologies** to ensure a flexible and collaborative approach to development, fostering rapid iteration and response to changing requirements.

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