Mausam Parajuli

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EDUCATION

Jacksonville State University   **Jacksonville, AL**

*MS in Computer Systems and Software Design (**GPA: 3.9**)*   *Graduation Date: Dec 2023*

SKILLS

Languages: Java, Python, C++, HTML5, CSS, JavaScript, R, Object-Oriented Programming

Frameworks/Libraries: React.Js, Node.Js, Nest.Js, Next.Js, Spring, Bootstrap

Technical: MongoDB, SQL, Git, Docker, Podman, Linux, Raspberry Pi, Virtualization, Jira, MS Office

WORK EXPERIENCE

Jacksonville State University   **Jacksonville, AL**

Graduate Research Assistant   *Aug 2022 - Dec 2023*

- Awarded "***The Best Presenter Award***" for presenting research paper titled "***Performance Evaluation of the Docker Technology on Different Raspberry Pi Models.***" **Click me to read the paper**
- Conducted empirical tests on 5 Raspberry Pi models to evaluate Docker's applicability on these SBCs, identifying critical performance factors, such as memory capacity and network bandwidth.
- Co-authored an 18-page research paper titled "***Performance Evaluation of the KVM Hypervisor Running on ARM-Based Single-Board Computers***". **Click me to read the paper**
- Analyzed and tested ODROID-N2+ and identified it as a superior performer over Raspberry Pi 4 Model B, with ODROID-N2+ roughly twice as fast as Raspberry Pi 4 in several benchmarks.

Jacksonville State University   **Jacksonville, AL**

Research Lab Assistant   *Jan 2020 - May 2022*

- Automated experimental procedures with Linux scripts, assessing CPU, memory, disk, and network TCP/UDP throughput benchmark, resulting in a time savings of 60% compared to manual execution methods.
- Configured and optimized hardware equipment, including single-board computers and routers, to proactively identify and resolve any technical issues, ensuring an uptime of 99% for research experiments.
- Installed Linux and Windows operating systems on over 50 devices, customizing settings to meet specific research requirements and efficiently troubleshooting system issues.
- Achieved a 75% reduction in network interference by implementing a Faraday cage.

PROJECT EXPERIENCE

My-Portfolio-React   2022 - Present

Live Demo

- Developed a responsive portfolio using React JS to showcase background, skills, and services offered.
- Used Git for version control and deployed the project using GitHub pages with 0 incidents reported.

Expense-Tracker-React   2024

Live Demo

- Implemented React hooks (useState, useContext, useReducer) and the context API to develop an efficient expense tracker app, improving user financial management.

Park-A-Lot   2023

Project Manager

- Led a 5-member team in developing a React-based parking system, reducing management time by 50%.
- Collaborated with the client to deliver regular progress reports, ensuring a 100% client satisfaction rate.