ABITHA K

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PROFESSIONAL SUMMARY

Results-driven Unix Administrator with expertise in Linux system administration, OS management, and IT infrastructure support. Skilled in incidents and service request management with hands-on experience in system optimization, file system management, and user access provisioning. Seeking challenging role to leverage technical expertise and contribute to organizational growth.

PROFESSIONAL EXPERIENCE

▶ Unix Administrator | Zack IT Solutions, Pune   **September 2024 – Present**

- Administer Linux/Unix environments, including OS patching, LVM expansion, filesystem health checks, and performance troubleshooting to ensure stable and secure operations.
- Handle incidents and service requests within defined SLAs, driving timely resolution and minimizing downtime for production systems.
- Manage system security by configuring sudo privileges, creating and maintaining user accounts, and enforcing secure authentication practices.
- Automate recurring operational tasks using cron jobs, improving efficiency and reducing manual intervention in routine maintenance activities.
- Perform end-to-end file system management, including LVM creation, resizing, mounting, and capacity optimization for critical servers.

Dashboard Development

- Designed and developed two production dashboards using PHP (frontend) and MySQL (backend) to present real-time system reports, user data, and server performance metrics to stakeholders.
- Implemented optimized SQL queries and structured data models to improve dashboard responsiveness and reliability for monitoring and reporting use cases

Chatbot Development

- Built two intelligent chatbots with a Python (Flask) backend and MySQL database, integrating an LLM (Ollama) to translate natural language commands into secure server actions.
- Implemented features such as multilingual command and response translation, automated download and installation workflows, and strict server command validation to prevent unsafe execution.
- Integrated SSH-based system information retrieval, enabling the chatbots to fetch real-time server status, logs, and performance data in response to user queries.

TECHINICAL EXPERIENCE

➤ **Linux and System Administration:** RHEL, Ubuntu, Rocky Linux, LVM, filesystem management, disk management, user management, sudo configuration, OS patching, patch compliance, crontab scheduling, system log analysis, process monitoring

➤ **Development Skills:** Chatbot development using Python, LLMs, MySQL; dashboard development using PHP and MySQL; API integration; backend development; natural language translation using Ollama LLM

➤ **Programming Languages and Databases:** Python, Java, C, C++, PHP, HTML, MySQL 8 including queries, stored procedures, performance optimization
Tools and Other Skills: Android Studio, MS Office Suite

ACADEMIC PROJECT

Online Examination System

Technologies: Android Studio (Java), MySQL 8

- Built a secure Android-based online exam platform to prevent malpractice and ensure controlled test environments.
- Implemented screen-switch detection to automatically block users from re-entering the exam after minimizing the app.
- Developed secure authentication modules for students and administrators.
- Designed MySQL database for questions, student records, and result management.
- Delivered a clean, stable UI with reliable performance across devices.

EDUCATION

- Diploma in Computer Engineering- 2022
  State Board of Technical Education, Kerala: Percentage: 76%

- Higher Secondary (Plus Two) – Computer Science- 2019
  Board of Higher Secondary Education, Kerala: Percentage: 66%

- Secondary School (SSLC)- 2017
  Board of Public Examinations, Kerala: Percentage: 82%