

Sk Tausif Rahman

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SUMMARY

Software engineer experienced in creating automation and monitoring tools with Python, Linux, Jenkins, and AWS at Infineon Technologies. Skilled in system scripting, infrastructure monitoring, and real-time alerting pipelines. Published research in Springer and IEEE on system reliability and cloud-based solutions.

EDUCATION

- National Institute Of Technology** Kurukshetra, India
Master of Technology - Cyber Security August 2022 - July 2024
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Cyber Security, Machine Learning, Networking, Cryptography
- Maulana Abul Kalam Azad University of Technology** West Bengal, India
Bachelor of Technology - Electrical Engineering August 2016 - July 2020
Courses: Object Oriented Programming, Data Structures, C Programming, Numerical Methods, Signal Processing, Digital Electronics

SKILLS SUMMARY

- Languages:** Python, C++, C, Bash
- Tools:** Git, Putty, Wireshark ,Cisco Packet tracer, Docker, Microsoft Excel, Jira , Confluence, MySQL
- Platforms:** Linux, Windows, AWS
- Soft Skills:** Leadership, Project Management, Writing, Public Speaking, Time Management

EXPERIENCE

- University of Petroleum and Engineering Studies** Dehradun, Uttarakhand
Assistant Professor July 2024 - Present
 - Managing various academic and social activities such as Course Coordination, Conferences, Convocations:
 - Mentored final-year Undergraduate students in their capstone projects, providing guidance on technical and project management aspects:
 - Teach core subjects including DevOps, Applied Machine Learning and Computer Networks:
- Infineon Technologies** Bengaluru, India
Software Engineering Apprentice July 2023 - May, 2024
 - Identified delayed IT news issue in Configuration Management tools; designed a proactive solution.:
 - Created a Python script using Jenkins cron jobs, checking Bitbucket URL every 15 minutes; initiated instant alerts upon disruption.:
 - Script adjusted for edge cases, including intermittent availability and reduced weekend activity, ensuring accurate IT news alerts.:

PROJECTS

- AWS Bitbucket Sentinel (AWS, Ubuntu Linux, Jenkins, Pycharm, Gmail):** Implemented real-time monitoring for a Bitbucket service in an EC2 instance using AWS CloudWatch. Alerts via email and SMS when CPU exceeds 80 percent . Configured automated reboot and admin notifications. Customized dashboard for critical metrics. The scheduled Python script checks for Bitbucket service availability.(July,2024)
- Coffee Shop Sales Analytics (Excel, Power Query):** Developed an interactive Coffee Shop Sales dashboard in MS Excel, using bar charts, pie charts, and trend analysis to track key metrics such as total sales, footfall, and average bill per person. Implemented dynamic filtering and data analysis with pivot tables and slicers, providing real-time insights into sales trends by time, product, and location. (Jan. 2024)
- MedAssist: Your Own Health Management Platform (Colab, Python, Flask, HTML):** Developed a personalized health management system using machine learning to predict potential diseases based on user-reported symptoms. Built a user-friendly Flask web application that delivered tailored medical recommendations and health insights through an interactive interface.

PUBLICATIONS

- Conference: ICT4SD 2024 (Cloud Computing, Python Automation):** Published in Springer Nature: Toward's Continuous Availability: Implementing Proactive Monitoring for AWS-hosted Web Applications with Jenkins and Bitbucket (Sept. 2024)
- Conference : ETCC 2025 (AWS, Bitbucket, Jenkins):** Accepted in IEEE Conference: Smart Notification and Automated Reboot System for Cloud-Hosted Bitbucket Server. (May. 2025)

POSITIONS OF RESPONSIBILITY

- Program Manager, Convocation:** UPES Dehradun , Uttarakhand November , 2024
- Placement Coordinator, Purulia Government Engineering College:** Purulia, India June, 2019- May, 2020