SAI TARRUN PITTA

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PROFESSIONAL EXPERIENCE

PEGA SYSTEM ARCHITECT,   **Aug 2023 - Dec 2023**
Cognizant Technology Solutions   **Hyderabad, India**

- Fostered effective collaboration to understand project requirements and design a robust system using PEGA technology.
- Reduced average response time by 40%, enhancing user experience and productivity.
- Successfully implemented 80% of stakeholder requirements, resulting in high customer satisfaction.

CYBER SECURITY AND LINUX ENGINEER,   **May 2022 - July 2022**
Phoenix Global   **Hyderabad, India**

- Implemented a Penetration Testing Toolkit that resulted in a remarkable 65 percent reduction in the average repetition of Linux based commands, optimizing operational efficiency and enhancing overall system performance.
- Led a dynamic team in the creation of a cutting-edge penetration testing toolkit using Python, actively contributing to the development of 10 advanced tools.
- Demonstrated leadership capabilities by playing a pivotal role as the team lead, ensuring effective collaboration and project coordination.

EDUCATION

Bachelors of Computer Science and Engineering,
GITAM UNIVERSITY   **2019 - 2023**
CGPA: 8.58 / 10
Relevant Coursework: Database Management, Artificial Intelligence, Software Engineering, Information Security, Cyber Security.

PROJECTS

CubeSat Satellite Stability and Temperature Control Using LSTM

- Developed a project on CubeSat satellite stability and temperature control, focusing on the implementation of LSTM (Long Short-Term Memory) neural network models.
- Replaced conventional PID control systems with machine learning techniques.
- Demonstrated significant enhancements in yield and minimized energy and temperature loss throughout the duration of flight operations.
- Conducted extensive research and experimentation to validate the efficacy of the LSTM-based approach.
- Collaborated with a multidisciplinary team to integrate the new control system into the CubeSat satellite platform.

Automatic Number Plate Detection and Recognition Using Computer Vision

- Leadership in Automatic Number Plate Detection and Recognition project, combining Computer Vision and Machine Learning.
- Developed a real-time system for capturing and identifying number plates.
- Implemented speed-based segregation of number plates, storing data in a database.
- Contributed to enhancing traffic monitoring and management systems.
- Presented project outcomes in technical reports, showcasing real-time capabilities.

Drowsiness Detection using Raspberry Pi and Computer Vision

- Took part in the development of a Drowsiness Detection system using Raspberry Pi and Computer Vision, incorporating algorithms such as:
- **Eye Blink Detection**: Utilized image processing techniques to detect eyelid closure indicative of drowsiness.
- **Facial Landmark Detection**: Implemented algorithms to locate key facial features, enabling analysis of facial expressions and eye movements.
- **Eye Aspect Ratio (EAR) Calculation**: Calculated EAR to quantify eye openness and identify signs of fatigue.
- Engineered an integrated solution capable of real-time monitoring and alerting, enhancing safety in various contexts.

SKILLS

- **Data Engineering Skills:** Python, SQL, AWS
- **Cybersecurity Tools**: Wireshark, Burp Suite, Nessus, Linux, Nmap
- **Web Skills:** HTML, CSS, Django, Flask, Wordpress

CERTIFICATION AND TRAININGS

- **Database Management Essentials** - University of Colorado System
- **Digital Forensics** - INFOSEC
- **Technical Support Fundamentals** - Google
- **Introduction to Artificial Intelligence** - IBM
- **Certified AppSec Practitioner** - The SecOps Group

VOLUNTEER WORK EXPERIENCE

Front Office Student Assistant ,
Gitam university `

<div align="right">Sep 2021 - Feb 2022
Visakhapatnam</div>

- Provided front desk support including reception, phone management, and scheduling.
- Managed office supply inventory, organized supplies, and maintained Xerox machines.
- Handled incoming mail distribution and conducted mail deliveries.
- Assisted in processing incoming paper and electronic documents.
- Worked on campus inventory management system to retrieve and store.

Student Life - Manager ,
Gitam University

<div align="right">Dec 2020 - Apr 2023
Visakhapatnam</div>

- Managed the implementation of Student Life's strategic objectives and initiatives.
- Managed the implementation of student orientation programs, aimed at familiarizing new students with the campus and facilitating interactions between students, faculty, and staff.
- Monitored the implementation of student programs and events at the community level, including volunteering activities, sports events, entertainment events, and receptions.
- Coordinated special events at the campus level, such as celebrations for days of national importance and graduation ceremonies.
- Supported the development and analysis of system-wide student surveys to identify areas for improvement.
- Communicated the annual Student Life calendar in a timely manner, in collaboration with the Student Life team.'

Lab Engineer - Python Laboratory ,
Gitam University

<div align="right">June 2021 - Nov 2021
Visakhapatnam</div>

- Work on development of experiments/exercises suitable for inclusion/betterment of laboratory courses.
- Assisting faculty and students during laboratory operations.
- Maintenance of the laboratory equipment and assisting/training in operating the machinery with standard safety procedures.
- Upkeep, replenishment and upgradation of inventory of laboratory consumables and equipment.
- Training/helping students in utilizing tools and equipment in the process of innovative product development.

University Residence Manager (Male) ,
Gitam University

<div align="right">Aug 2022 - Dec 2022</div>

- Managed student life in hostels, ensuring compliance with rules, handling parent queries, and addressing emergencies.
- Allocated rooms, monitored occupancy and vacancies, supervised billing, payments, monthly audits, and maintained financial accounts.
- Planned and organized events and recreational activities for students, ensuring their well-being and handling health emergencies.
- Supervised mess activities, ensuring the quality of materials and food, and collecting feedback to enhance services.
- Maintained sanitation and hygiene in hostels, trained staff, monitored daily activities, and managed maintenance records and contracts.