

POLU VIJAYA KRISHNA REDDY

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ACADEMIC QUALIFICATION

Bachelor of Technology in Electronics and Communication Engineering (ECE), Madanapalle Institute of Technology and Science (MITS), Angallu, Jawaharlal Nehru Technological University Anantapur (JNTUA);
CGPA: 8.16/10; Jul'21

WORK EXPERIENCE

Software Developer, Accenture, Bengaluru

Sep '21 – Sep '24

- Contributing to software development of the Kaiser Permanente project, designing test cases, and demonstrating the functionalities incorporated.
- Monitoring the deployment and administration of IBM Tivoli Workload Scheduler (TWS) for Kaiser Permanente, a prominent healthcare organization. Collaborated with cross-functional teams to improve operational efficiency and ensure timely completion of vital activities by streamlining job scheduling and automating crucial operations.

Key Achievements:

- **Enhancement of Workflow Automation:** Tivoli Workload Scheduler was successfully used to automate complicated procedures spanning many systems, drastically decreasing manual involvement and minimizing mistakes.
- Designed and configured complex job dependencies to ensure that activities are completed in proper order to support key healthcare procedures.
- **Error Handling and Recovery Improvement:** TWS's error handling algorithms have been improved, effectively minimizing downtime caused by job failures. To ensure the continuance of important activities, automatic recovery procedures such as retries and alerts were implemented.
- **Resource Utilization Optimization:** TWS's resource optimization skills were used to strategically assign workloads to available resources, resulting in increased resource utilization and lower operational expenses.
- **Priority-based scheduling** was done to guarantee that high-priority assignments received the resources and attention they need.
- **Event-Driven Automation:** Tivoli Workload Scheduler's event-based scheduling was used to activate jobs based on real-time events such as data arrivals and system changes. This functionality facilitated the prompt completion of activities vital to patient care and data processing.
- **Centralized Management and Monitoring:** Created a centralized management console for tracking work schedules, execution statuses, and historical data. This facilitated troubleshooting, allowing rapid detection and resolution of difficulties.
- **Collaborative Teamwork:** Collaborated closely with IT teams, application owners, and stakeholders to gather requirements, establish job processes, and align automation plans with the healthcare operations of the organization.
- **Training and documentation:** Developed detailed documentation outlining work descriptions, scheduling parameters, and error-handling processes. Training sessions were held to provide team members with the knowledge and skills needed to manage and handle TWS-related duties.

INTERNSHIP

Intern, Bharat Sanchar Nigam Limited (BSNL), Madanapalle

Jun- Jul'19

BSNL is a government-owned telecommunication and internet services provider.

- Contributed to network infrastructure design, implementation, and optimization related to the telecommunication sector.
- Strengthened skills in wireless and cable communication protocols. Handled challenging obstacles and quickly addressed connectivity issues and strengthened troubleshooting abilities.
- Collaborated with interdisciplinary teams and actively supported the seamless integration of cutting-edge telecom tech innovations.

ACADEMIC PROJECTS

Title: Human Activity Recognition and Classification Using Machine Learning

Duration: Jan – May'21

Location: Madanapalle Institute of Technology and Science (MITS), Angallu

Team size: 04

Description: This project was designed to recognize, detect and classify human activities and to monitor the dynamism of a person, and this was attained with the support of Machine learning techniques. Designed an algorithm based on ResNet Architecture and Python to recognize human activities.

Individual Role: Developed the Machine Learning model for activity recognition and designed the Model architecture. Trained the model using preprocessed dataset and helped develop the algorithm.

Title: IoT Home Automation Systems

Duration: Sep - Oct'20

Location: Madanapalle Institute of Technology and Science (MITS), Angallu

Team size: 02

Description: This project was designed to control and monitor a wide range of devices and systems from a single, centralized location. Designed IoT-based home automation systems, integrating smart devices and sensors for seamless control of lighting, HVAC, and security. Developed intuitive mobile applications enabling remote monitoring and management.

Individual Role: Worked on programming the microcontrollers and Internet of Things (IoT) devices to communicate with the sensors and actuators. Wrote the code to gather sensor data, process it, and operated actuators based on predetermined circumstances such as Time-Based Triggers, Motion Detection, Temperature Thresholds, Gas or Smoke Detection, and Power consumption Optimization. Oversaw connectivity by establishing communication protocols such as Wi-Fi or Bluetooth for remote control and monitoring.

WORKSHOP

Techno Workshop Series on Android App Development, Indian Institute of Technology, Tirupati

Feb'19

- Participated in an intensive Android app development session and gained hands-on experience in Java programming. Practiced developing user interfaces, integrating functionality, and troubleshooting programs.
- Learned about best practices for optimizing app speed and guaranteeing compatibility across multiple Android devices.
- Collaborated with peers on group projects, and worked on team skills and problem-solving skills.

TECHNICAL SKILLS

- **Languages:** C, Python, Java
- **Software:** AutoCAD, GitHub
- **Web Technologies:** HTML5, CSS3,
- **Database:** MySQL, MongoDB
- **Graphic Software:** Adobe Photoshop, Final Cut Pro

EXTRACURRICULAR ACTIVITIES

- Volunteered to organize the departmental fest 'ASHV' at MITS. Carried out tasks such as event planning, logistics management, and participant involvement, MITS, Angallu; 2019.
- Participated in National Services Scheme (NSS), and actively engaged in community-service activities like organizing wellness camps, leading educational outreach initiatives for underprivileged children, and leading environmental conservation efforts through clean-up drives. Ran social awareness campaigns on topics such as gender equality and mental health. Contributed to rural development by teaching practical skills like Nutrition food security programs, Water conservation campaigns, and Renewable energy training to marginalized people, MITS, Angallu; 2018.