Puli Sai Swaroop

Nellore, 524004 | 6302445061 | saiswaroop916@gmail.com

Objective

Aspiring Software Engineer with a focus on leveraging skills and knowledge for project development. Seeking a role where strong project management and analytical skills contribute to efficient service delivery to customers.

Education

- Bachelor of Technology (B.Tech.):- Electronics and Communication Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai Jun 2019 - Jul 2023 - Secured an academic record with a CGPA of 7.58
- Intermediate: - Narayana Junior College, Nellore District, Andhra Pradesh. Graduated in 2019 with a CGPA of 8.98.
- SSC (10th Grade):- Sri Pada English Medium High School, Nellore District, Andhra Pradesh. Graduated in 2017 with a CGPA of 9.5.

Skills & abilities

- **Python**: Proficient in fundamentals, with a focus on data analysis and problem-solving.
- **DevOps**: Basic knowledge in CI/CD, containerization, and cloud services, with skills in:
    - **Version Control**: Git
    - **CI/CD**: Basic experience with Jenkins for integration and deployment
    - **Configuration Management**: Ansible
    - **Containerization**: Docker
    - **Cloud Basics**: AWS fundamental

Projects

SRR Loaded Antenna Array for 5G Base Station (Main Project)

- Designed a high-performance antenna using Fr4 epoxy metamaterial to enhance 5G signal reception
- Created a 2x2 patch antenna array with Split Ring Resonators (SRR) to improve signal reception within the 3.5GHz to 6GHz range
- Conducted performance analysis using Ansys HFSS to accurately assess antenna efficiency and signal propagation

Packet Transmission Efficiency in Wireless Ad-Hoc Networks Using AODV and ARP Approaches (Mini Project)

- Developed a decentralized network architecture employing Ad-hoc On-Demand Distance Vector (AODV) and Address Resolution Protocol (ARP) for communication among mobile nodes via multi-hop wireless links
- Enabled nodes to function as routers, enhancing data packet forwarding and network efficiency
- Utilized AODV and ARP protocols to optimize packet transmission, reduce latency, and strengthen the wireless ad-hoc network