

ARADHANA YADAV

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🌐 Aradhana Yadav

📁 Portfolio

TECHNICAL SKILLS

- **Languages:** Go, C, Python, Bash, XML.
- **Testing:** Unit Testing, Integration Testing
- **Systems Networking :** Diameter, Radius, NGAP, LTE, NAS, Linux/UNIX, TCP/IP, HTTP/HTTPS, TLS, JSON, YAML, Network Protocol Analysis
- **Cloud-Native DevOps:** Docker, Kubernetes, CI/CD (Jenkins, GitLab CI), Git, Bash
- **Tools Databases:** MySQL, Wireshark, JIRA

Professional Experience

Associate Software Engineer II

March 2025 – Present

Capgemini Engineering

- Resolved Registration, PDU, Handover, Attach, Detach, Reconnect, and TAU Jira issues in the load soak environment of 5G NR and LTE, ensuring system stability under heavy traffic conditions.
- Developed S6c, Rx, and T6a interfaces using the Seagull tool, expanding simulator support for diameter telecom protocols.
- Worked on CHF (Charging Function), GMLC (Gateway Mobile Location Center), LI (Lawful Interception), and Fault Manager modules, developing and debugging features in Go language.
- Led troubleshooting and resolution of critical 4G and 5G network issues, ensuring minimal downtime and optimal performance for clients.

Associate Software Engineer I

Aug 2024 – March 2025

Capgemini Engineering

- Collaborated with cross-functional teams to implement network enhancements, improving service reliability and user experience.
- Deployed Next Generation Core (NGC) in both Kubernetes (K8s) and Docker environments, gaining hands-on experience in containerization and orchestration.
- Led troubleshooting and resolution of critical 4G and 5G network issues, ensuring minimal downtime and optimal performance for clients.
- Implemented Sh interface and S6a interface using the Seagull tool, enabling protocol testing and validation.
- Removed 5000+ compiler warnings across 5G and LTE modules, improving code quality, maintainability, and overall system stability.
- Implemented message handling for UE-initiated and Network-initiated procedures in a 5G simulator.
- Debugged and resolved across 5G and LTE core workflows using Wireshark, log analysis, and network protocol tracing, improving system stability and reducing recurring defects.

Education

Noida Institute of Engineering and Technology
B.tech (Electronic and Communication Engineering)

August 2020 – July 2024
CGPA: 9.23

Certifications

- Golang for Beginners
- Crash Course on Python by Google
- Docker for Absolute Beginners
- Docker Essentials & Building Containerized Web Applications
- Introduction to Containers w/ Docker, Kubernetes & OpenShift
- Container Orchestration Using Kubernetes
- Fundamentals of Kubernetes Deployment