UPENDRA GUPTA

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🖥 Portfolio | 💼 linkedin.com/in/upendragupta2107

About

CSE Engineer with **2+ years** of experience in **5G integration**. Skilled in **5G integration, Automation** and **DevOps** technologies, with a focus on improving workflows and solving critical issues.

Skills

Languages: C, Bash

Technologies and tools: 5G New Radio (NR), Linux, Scripting, Automation, Integration, GIT, Wireshark, 3gpp, Jenkins, Cloud, Logging, Containers, Monitoring, Networking.

Education

B.E. in CSE [AMCEC (Affiliated to VTU), Bangalore] CGPA:7.82/10   2018-2022

Work Experience

Capgemini Engineering (formerly Altran), Gurugram   AUG 2022 – Present

Associate II

- **Deployed end-to-end server setups to ensure seamless network operations:**
  - Configured hardware connections and software installations from scratch.
  - Set up fronthaul and backhaul connections, including Radio Unit (RU) to gNB, grandmaster, and NGC.
  - Completed deployments efficiently both in-house and at customer sites.

- **Installed and Tested complete end-to-end software stacks to ensure system readiness:**
  - Performed rigorous testing to validate system stability and performance.
  - Verified system readiness for operational use by collaborating with internal and customer teams.

- **Executed feature deployment and advanced testing for critical functionalities:**
  - Tested advanced features such as CBRS, O1, and handovers at customer locations.
  - Ensured smooth integration and optimized functionality through comprehensive validation.

- **Developed automation tools to streamline repetitive workflows and improve efficiency:**
  - **Core Binding GUI Tool**: Simplified core-binding processes through a user-friendly interface.
  - **End-to-End Log Debugging and Capturing**: Automated log collection for faster issue analysis.
  - **Cell Setup GUI**: Enabled quick and accurate cell configuration.
  - **System Core Usage Monitoring Tool**: Provided real-time core resource insights to optimize usage.
  - **Compilation and Cfg Alignment Scripts**: Minimized manual errors and reduced configuration time.

- **Resolved customer-reported issues (CSRs) with a proactive and systematic approach:**
  - Analysed logs and debugged issues to identify root causes.
  - Implemented efficient solutions to resolve issues promptly and prevent recurrence.
  - Improved customer satisfaction by reducing resolution time and enhancing system performance.

- **Managed client relationships as the primary technical point of contact:**

- o Supported US-based clients with effective communication and issue resolution.
- o Delivered timely technical support to improve client satisfaction and maintain trust.
- o Acted as a liaison to address queries and ensure successful project execution.

Project Work

- **Core Binding tool**   SEP 2024

  Developed a GUI tool to automate and optimize core binding in 5G NR systems, dynamically allocating cores for network functions with customizable core-thread mapping.

- **Server Bring up tool**   JUL 2023

  Developed a 0-touch automation script that brings up servers in a single click, reducing manual errors and significantly saving setup time.

- **Student Feedback Management**   JAN 2022

  Designed and deployed a student feedback web app with sentiment analysis, currently being used in college.

Achievements

- **Employee of the year**   DEC 2023

  Recognized for significant contributions to the 5G integration team, particularly in automation and client management.

- **Google Quick Labs Achievement**   MAY 2021

  Received commendation from Google for successfully completing DevOps lab projects, demonstrating proficiency and expertise.

Certificates

- 5G-architecture-design-protocols-evolution-deployment   [Certificate]
- 5G for Everyone   [Certificate]
- C for Everyone   [Certificate]
- Linux Fundamental   [Certificate]
- Continuous Integration/Delivery   [Certificate]
- Jenkins   [Certificate]
- Ansible & Ansible-Playbooks For Automation   [Certificate]