

# UPENDRA GUPTA

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## 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.

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## Skills

**Languages:** C, Bash

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

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## Education

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

2018-2022

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## Work Experience

**Capgemini Engineering (formerly Altran), Gurugram**

AUG 2022 – Present

### Associate II

- **End-to-End Server Deployment:** Successfully set up servers from scratch, including hardware connections and software installations. Configured fronthaul and backhaul connections, such as Radio Unit (RU) to gNB, grandmaster, NGC, to ensure seamless operation. Completed this process both in-house and at customer sites.
- **Stack Installation and Testing:** Deployed and tested complete end-to-end setups, ensuring system readiness for operational use.
- **Feature Deployment and Testing:** Delivered end-to-end testing for advanced features like CBRs, O1, and handovers at customer sites. Ensured smooth integration and optimal functionality.
- **Workflow Improvement:** Designed multiple automation tools to streamline repetitive tasks. These tools significantly reduced manual effort, improved efficiency, and minimized errors in the integration process.
  - Core binding GUI tool.
  - End-to-end log debugging and capturing.
  - Cell setup GUI.
  - System core usage monitoring.
  - Automated compilation and configuration alignment.
- **Customer Issue Resolution:** Proactively addressed and resolved customer-reported issues (CSRs).

- **Client Relationship Management:** Acted as the primary point of contact for US-based clients, providing technical support and enhancing client satisfaction through effective communication and timely issue resolution.
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## 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.
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## 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.
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## Certificates

- **Coursera:** 5G, Linux, C, Python, Microsoft 365, AWS
- **UDEMY:** CI/CD, Jenkins, Docker
- **IBM:** Bash Scripting.