AMAN BHASKAR

5G RAN Software Engineer | 3+ Years Experience

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5G RAN Software Engineer with 3+ years of industry experience, specializing in CU Layer 3 development for 5G NR and NB-IoT. Proficient in C, Python, and Bash with strong grounding in 3GPP standards, CI/CD practices, and software quality. Passionate about Open RAN, network automation, and building intelligent wireless software.

PROFESSIONAL EXPERIENCE

Connectivity & Network Engineer — Professional I

Capgemini | Gurugram, India | Aug 2022 – Present | **3+ Years**

5G NR

- **Implemented core mobility features:** RACH, UE Registration/Attach, Xn Handover, NG Handover, DAPS, MOCN, and UE-ANR on the CU Layer 3 side.
- **Worked across CU internal modules:** RRC (connection setup, reconfig, measurement reporting), UECC (context lifecycle), and RRM (resource allocation, admission control).
- Regularly read and implemented features per **3GPP Release** specifications.
- Resolved complex **Coverity static analysis** defects and **5G Issues** across legacy and new features, maintaining standards compliance.

NB-IoT

- **Designed and implemented the complete CU logging architecture** for NB-IoT — structured log levels, module-wise trace points, and persistent capture enabling efficient stack debugging.
- **Built comprehensive logging framework for the NB-IoT Test Tool** — end-to-end message flow traceability and failure diagnostics.
- Implemented **SIB31 modification** for NB-IoT device connected to Non Terrestrial Network (NTN).

Tooling & Automation

- **Developed L3 Test Tool** with multi-AMF support using socket programming, accelerating CU feature validation cycles.
- **Built Python and Bash automation scripts** for Jenkins CI/CD pipelines — log saving, configuration backup, and post-development test execution.
- **Leveraged AI tools** (Copilot, GitLab Duo) to improve development velocity, code consistency, and debugging efficiency.
- Managed feature lifecycle via **Git/GitLab** — branching, merge requests, code reviews, and CI/CD pipeline health.

★ AWARDS

Capgemini WOW Award × 2

Received recognition of excellence twice for timely delivery and high-quality work across engagements.

EDUCATION

B.Tech — Metallurgical Engg.

Honours

NIT Raipur

2018 – 2022 | CGPA: 8.71 / 10

TECHNICAL SKILLS

Languages

C • Python • Bash

CU Modules

RRC • UECC • RRM • SON

5G / Telecom

5G NR • NB-IoT • 3GPP Rel.15/16/17 • gNodeB • CU/DU • Open RAN

Features

RACH • UE Attach • Xn HO • NG HO • DAPS • MOCN • UE-ANR • SIB31

DevOps & Tools

Git • GitHub • Jenkins • Docker • VS Code • JIRA • Notion

AI Tools

Copilot • GitLab Duo • Claude • ChatGPT

Practices

Coverity • CI/CD • Log Analysis • Code Review • Test Automation

CERTIFICATIONS

LinkedIn Skill Badges

C • HTML • CSS • MS Office

Languages

English — Professional

Hindi — Native

5G NR • NB-IoT • CU Layer 3 • Open RAN • 3GPP • RRC • UECC • RRM • CI/CD • C • Python • gNodeB