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Portfolio

UPENDRA GUPTA

Summary

Experienced **Software Engineer** with **3 years** specializing in **5G RAN integration**, optimization, and Layer 2/3 development using C. Expertise in end-to-end feature deployment (**CBRS O1, NR Positioning**) via **CI/CD** pipelines and **Linux** server. Recognized with WOW **Awards** for developing mission-critical optimization tools and successful **customer deployments**. Skilled in **client-facing** technical collaboration and **automating processes** reduce manual efforts.

EDUCATION

COURSE	COLLEGE	YEAR	MARKS	LOCATION
B.E (CSE)	Visvesvaraya Technological University	2018-2022	78.2%	BANGALORE
12th	AYT Sr. Sec School	2016-2018	64.8%	UTTAR-PRADESH
10th	GREENLAND PUBLIC SCHOOL	2014-2016	90%	UTTAR-PRADESH

TECHNICAL SKILLS

Languages	C, Bash Scripting
5G/RAN	5G Architecture, gNB, L1/L2/L3 Layers, RU, NG Interfaces(N1-N5)
Systems	Linux, Memory/CPU Optimization, Core/Thread mapping, Networking
Tools	Git, Jenkins, CI/CD, System Monitoring, Logging, Wireshark, Vim

EXPERIENCE

Associate II | Capgemini (formerly Altran) | Gurugram | Aug 2022 – Present |

- Debugged software defects through **CSR & Jira**, ensuring timely **delivery of patches**.
- Integrated new **features** by analysing AN (approach-notes), performing end-to-end testing, and deploying via **CI/CD pipelines**.
- Conducted regular **sessions with international clients** to debug on-site code issues.
- Gained in-depth expertise in **5G RAN** hardware and software components (**RU, CU, DU, 5GC**), including **N2/N3** interfaces and overall system **architecture**.
- Managed full Linux server lifecycle—from OS installation on bare metal to final **server bring-up** and configuration at **customer sites**.

PROJECTS

- **CBRS O1 feature:** Integrated **CBRS & O1 features** in **C**, performing end-to-end client-side testing, reducing manual CFG alignment and aligning with U.S. regulatory framework.
- **NR Positioning:** Integrated 5G **NR positioning** feature, deployed at customer sites to enable precise location-based services.
- **Server Bring-up:** Engineered **zero-touch server bring-up** and E2E test framework using C and Bash scripting, reducing all manual work.

CERTIFICATIONS

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

ACHIEVEMENTS

- **WOW Award (2024):** Recognized for developing mission-critical C tools for 5G RAN optimization.

- **Excellence Award (2023):** Recognized for exceptional client relationship management and consistently exceeding service-delivery expectations.

- **WOW Award (2025):** Recognized for deployments & testing of CBRS/NR-POS feature in Customer Setup.