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Profile Summary

Senior Software Engineer with **14+ years of experience** in **C/C++ development on Linux**, specializing in **virtualization, telco-cloud, and cloud networking platforms**. Proven expertise in **packet processing, ACLs, AAA, TLS, and firewall concepts**. Hands-on with **KVM, ESXi, DPDK, OVS**, delivering scalable, secure, and high-performance solutions across **routing platforms, SDN controllers, and virtualized routers**. Recognized with multiple **employee awards** for innovation, quality delivery, and cross-team collaboration

Core Skills

Programming: C (expert), C++, Python (intermediate), C#
Networking: TCP/IP stack, L2–L7 protocols, ACL, AAA, TLS, packet processing, firewall concepts
Virtualization/Cloud: KVM, ESXi, DPDK, OVS, VMware, Containers
Operating Systems: Linux (Ubuntu, CentOS, RHEL), Windows
Tools: Git, JIRA, Valgrind, Coverity, Flame Graph, Meson Build
Soft Skills: Technical leadership, mentoring, cross-team collaboration

Professional Experience

Ciena Networks | *Software Engineer – 4* | Jan 2024 – Present

- Developed **AAA authentication and NAS IP features** for multi-container router platforms
- Optimized performance and fixed memory leaks using **Valgrind and Flame Graph**
- Refactored event-handling logic, cutting memory footprint by 5x and enhancing throughput/performance under load

Impact: Reduced authentication-related issues by ~25% and improved system stability for high-performance routing platforms

Nokia Networks (Nuage VCS – SDN Platform) | *Technical Specialist* | Sept 2019 – Dec 2023

- Designed and delivered features like **traffic mirroring** and **dual FIP**, enhancing visibility and multi-homing
- Worked on **network virtualization** across VMs, containers, and bare metal systems
- Partnered with QA, DevOps, and support to ensure **on-time, high-quality releases**

Impact: Improved customer troubleshooting efficiency and enabled more resilient network connectivity for telco-cloud deployments

Juniper Networks (Virtual MX Platform) | *Software Engineer 3* | Jun 2015 – Sept 2019

- Built **virtualized MX/PTX routers (vMX)** running on **KVM and ESXi**, replicating real router features in cloud environments
- Integrated **DPDK/i40e drivers** for high-performance packet I/O
- Implemented **dual RE and multi-FPC** support on Ubuntu platforms

Impact: Enabled Juniper's customers to deploy routing in cloud-native environments, reducing CAPEX by eliminating hardware dependencies

Samsung India (SRI-B) | *Lead Engineer* | Apr 2011 – May 2015

- Developed **IPC layers** for mobile platforms, improving bandwidth and stability
- Implemented **RIL (Radio Interface Layer)** enabling WiFi Calling on Windows Mobile OS
- Built POCs for **WiFi Display (Android)** and **SmartStay (Windows Phone)**

Impact: Drove **first-of-its-kind global innovation** with WiFi Display, contributed to flagship features like WiFi Calling and SmartStay that enhanced Samsung's competitive edge.

Aricent Group | *Software Engineer Trainee* | May 2010 – Mar 2011

- Contributed to **2G GSM-GPRS OMCR functions** – billing, alarms, and NE management
- Supported build and release automation in **C, C++, Perl, and Core Java**

Awards & Recognition

- **Nokia Employee Award (2021)** – Recognized for delivering critical SDN virtualization features (*traffic mirroring & dual FIP*) ahead of schedule, significantly improving customer adoption
- **Half-Yearly Award (Samsung, 2014)** – Honored for successful **WiFi Calling** feature delivery and outstanding onsite **RIL support**
- **Spot Award (Samsung, 2013)** – Awarded for delivering the **SmartStay feature without SoC vendor support**, ensuring a bug-free release

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Education

- **Master of Computer Applications (MCA)** – UP Tech University, Lucknow | 75%
- **Bachelor of Computer Applications (BCA)** – Agra University, Agra | 80%

Achievements & Contributions

- **World-first innovation**: Paper presentation and POC demo of **WiFi Display** at Samsung, later adopted globally.
- Active problem solver on **HackerRank & LeetCode** (focus on algorithms and data structures)
- Consistently recognized for **mentoring junior engineers** and driving cross-team collaboration
- Delivered multiple **virtualization and SDN features** that directly improved customer adoption and system performance.