SAURABH SHARMA

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PROFILE SUMMARY

Dynamic and results-oriented IT professional with over 14 years of experience specializing in networking systems and cloud solutions. Proven expertise in designing, developing, and deploying innovative solutions for global network providers. Skilled in driving automation, managing cross-team feature development, and optimizing network virtualization to deliver high-impact results.

PROFESSIONAL EXPERIENCE

CIENA NETWORKS
Software Engineer
Jan 2024 – Present

- **Brief Description:**
  Working on Ciena's Routing and Switching Platform (RSP) unit, which features a multi-container-based architecture for high-speed routers. Focused on AAA authentication, event management, and optimization within the infrastructure team.
- **Key Responsibilities:**
  - Implemented new features related to AAA user authentication.
  - Conducted bug fixing, performance improvements, and memory analysis.
  - Delivered enhancements for the NAS IP feature to improve system functionality.
- **Tools & Technologies:**
  JIRA, Git, Containers, Flame Graph, ASAN, Coverity, Valgrind

NOKIA NETWORKS
Technical Specialist
Sept 2019 – Dec 2023

- **Brief Description:**
  Nuage Networks Virtualized Cloud Services (VCS) is a Software-Defined Networking (SDN) solution enabling network virtualization and advanced automation across Telco/Public Cloud data center infrastructures. It establishes seamless connectivity between virtualized compute resources, including virtual machines, containers, and legacy bare-metal servers.
- **Key Responsibilities:**
  - Implemented new features such as mirroring and dual FIP, enhancing network functionality.
  - Collaborated across multiple teams to drive feature development, ensuring timely delivery and alignment with project goals.
  - Managed timelines, resources, planning discussions, and test plan reviews for complex projects.
  - Performed bug fixing and optimized system performance to maintain high reliability and efficiency.
- **Tools & Technologies:**
  JIRA, Git, DPDK, Meson Build, x86 Architecture, CentOS, ACL, OVS

JUNIPER NETWORKS
Software Engineer
June 2015 – Sept 2019

- **Brief Description:**
  Worked on Virtual MX, implementing real MX and PTX router functionality over virtual platforms such as KVM and ESXI. Developed low-bandwidth replicas of real routers.
- **Key Responsibilities:**
  - Orchestrated virtual platforms and implemented new features.
  - Conducted bug fixing, ported new DPDK releases, and integrated the latest i40e drivers.
  - Brought up dual RE and multi-FPC over Ubuntu.
- **Languages:**
  C, Python, Shell Script
- **Tools & Platforms:**
  DPDK, Coverity, GCOV, ESXI, Libvirtd, QEMU, VMware, Ubuntu

SAMSUNG INDIA SOFTWARE OPERATIONS(SRI-B)
Lead Engineer
April 2011 – May 2015

- **Inter Processor Communication (IPC):**
    - **Brief Description:** Developed IPC layers for mobile devices, enabling communication between communication processors and application processors.
    - **Responsibilities:** Bug fixing, unit testing, debugging packet drops, and bandwidth optimization.
- **Radio Interface Layer (RIL):**
    - **Brief Description:** Provided system interface between the Cell Core layer within Windows Mobile OS and the radio protocol stack used by wireless modem hardware.
    - **Responsibilities:** Maintenance, bring-up, field support, and implemented new features like WiFi Call
    - **Languages:** C, C++
    - **Platform:** Windows Mobile
- **Wi-Fi Display (WFD):**
    - **Brief Description:** Proof of Concept (POC) for Wi-Fi Display on Android.
    - **Responsibilities**: Development and paper presentation.
    - **Languages:** C, JavaScript, Dbus
    - **Platform:** Android, Chrome
- **Smartstay:**
    - **Brief Description:** POC for Smartstay on Windows Phone.
    - **Responsibilities:** Development.
    - **Languages:** C, C#

ARICENT GROUP
Software Engineer – Trainee
May 2010 – March 2011

- **Brief Description:**
    Contributed to 2G network development for GSM-GPRS-based networks, focusing on OMCR functions such as billing, accounting, alarms, and management of Network Elements.
- **Key Responsibilities:**
    - Maintenance, build and release management.
    - Worked in ENS and OBSAL teams.
- **Languages:**
    C, C++, PERL, Core Java

APPLIED ELECTRO-MAGNETICS(AEM)
Student Trainee
Jan 2009 – Jan 2010

- **Brief Description:**
    Completed training focused on applied electromagnetics, laying the foundation for a career in software engineering.

SKILLS
- **Languages:** Primarily proficient in C, with experience in C++, Python, and C#
- **Operating Systems:** Windows, RHEL, Ubuntu, Linux
- **Virtual Platforms:** KVM, ESXI, Data Plane Development Kit (DPDK), openvswitch, pf-vf communication, i40e nic driver, AAA authentication
- **Tools:** Git, Valgrind, GCOV, Coverity, GNATS, JIRA, Flamegraph

EDUCATION
- **Master of Computer Application**
  UP Tech University, Lucknow | 75%
- **Bachelor of Computer Application**
  Agra University, Agra | 80%

Programming profile :
  Hackers Rank:
  https://www.hackerrank.com/profile/saurabhsvalley
  Leet Code :
  https://leetcode.com/u/saurabhsvalley/