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| RAVI KUMAR REDDY K | | +91-741-134-0221  [ravikumark815@gmail.com](mailto:ravikumark815@gmail.com)  [LinkedIn](https://www.linkedin.com/in/ravikumark815) • [GitHub](https://www.github.com/ravikumark815) | |
| SUMMARY: | | | |
| * Software Developer with extensive experience of 6+ years in developing System Platform Software, Network Datapath, Applications and Tools for On-Premises and Virtual Next Generation Firewalls (NGFW), Containerized Firewalls (ASAc), Switches and Access points. * Extensive Experience in Cloud Computing, Virtualization, Linux Internals, Software Architecture, and comprehensive understanding of latest technologies. * In-depth knowledge of Layer 2, Layer 3 and Layer 4 networking, SSL Applications and Firewall Features. * Hands-on experience in design, configuration, development and troubleshooting of firewalls, routers, switches of different vendors. | | | |
| SKILLS & TECHNOLOGIES | | | |
| * C, C++, Python3, Bash, JavaScript, REST, JSON, XML * AWS, Azure, GCP, OCI, Alibaba Cloud, VMware, KVM * TCP/IP, NAT, High Availability, SSL/TLS, VPN, Routing and Switching * Git, Perforce, Jira, Confluence, Target Process, CDETS, Agile, MacOS, Windows, Linux | | | |
| EMPLOYMENT | | | |
| **Software Engineer III** | **Cisco Inc.** | | **August 2020 – Till Date** |
| * **Data path** **specialist** for ASAv and FTDv virtual firewall deployments in AWS, OCI, GCP, Azure, KVM and VMWare in both form factors - Containers/Virtual Machines. * Worked on adding **SRIOV support** for Cisco ASAv and NGFWv deployments in Oracle Cloud Infrastructure (OCI) * Worked on adding support to **Broadcom NetXtreme Adapters** for Cisco ASAv and FTDv deployments in Oracle Cloud Infrastructure (OCI). * **Improved performance by 110000 CPS and of** Cisco ASAv and FTDv deployments in KVM, Alibaba Cloud OCI Platforms by adding **Multiqueue with RSS support** for i40E and i40evf network drivers and Intel XL710 Network Cards. * Resolved several **NIC Underruns, Interface Hot Plugging Support, Core Dump Issues,** **Memory Leaks, Low CPS/PPS** issues on ASAv deployments in KVM and VMware platforms. * Migrated Virtual firewall deploymentsin Azure from **Python2.7 to Python3.9** using AzureLinuxAgent. * Resolved various issues as part of upgrading underlying WindRiver Linux OS Upgrade. * Collaborated with other Engineers on code reviews, functional specification reviews and process enhancements. | | | |
| **Software Development Engineer** | **Red Piranha** | | **May 2020 – August 2020** |
| * Developed features for Crystal Eye, a network operating system running on firewalls, such as SSLVPN Module such as LDAP Integration, Static IP setups, SSL Perceive and Bump and so on in Linux based Virtual Firewalls. * Designed system specification for various features of SSLVPN. * Collaborated with colleagues on code reviews via Git, test cases, documentation, and general process enhancements. | | | |
| **Software Development Engineer** | **SonicWall Inc.** | | **June 2015 – April 2020** |
| * Developed a solution to integrate SonicWall **Switches with Firewalls** to give granular monitoring on every end-user through a single management interface. * Developed CLI and API interfaces to configure Flow Reporting, ARP Storm Limit and AWS Integration of Firewalls. * Designed and developed **log analyzers** namely TSR Analysis Tool, EXP Viewer that parses various sections of log files using Regular Expressions. * Developed Migration Tool for customers of other vendors namely, Cisco, Check Point, Juniper, Fortinet, Palo Alto, and so on to migrate easily to SonicWall. URL: [https://migratetool.global.sonicwall.com](https://migratetool.global.sonicwall.com/) | | | |
| EDUCATION | | | |
| * **Master of Technology** in Software Systems – Securityfrom **Birla Institute of Technology and Science (BITS).** 2021 – 2022 * **Bachelor of Engineering** in Computer Science & Engineeringfrom **Visvesvaraya Technological University.** 2011 – 2015 | | | |
| CERTIFICATIONS & COURSES | | | |
| * [Oracle Certified Cloud Infrastructure Foundations Associate](https://github.com/ravikumark815/certifications/blob/master/OCI-Foundations-2022.pdf) (Feb 2022) * [SonicWall Network Security Administrator](https://github.com/ravikumark815/certifications/blob/master/SNSA.pdf) (SNSA – License # bd75d8d8051084bcbcf26328e7caff60) * Linux Kernel Debugging, Device Drivers, Process Management, Scheduling and Memory Management. (Cisco Internals) | | | |