

HARSH VERMA

BLOCK A, HOUSE-341, NEW ASHOK NAGAR , DELHI , DELHI , INDIA

PHONE

+917895709099

EMAIL

harshu.verma9@gmail.com

SOCIALS

harsh-verma-a8456784 (LinkedIn)

SUMMARY

Results-oriented and innovative Senior Software Engineer with 6 years of experience. Easily communicates complex technical requirements to non-technical stakeholders. Excellent leadership record of leading development teams in enterprise-wide development projects.

SKILLS

- C/C++, SQL, Shell scripting
 - JSON, XML
 - Good Knowledge of relevant tools like GDB, Valgrind, CppCheck , Wireshark, Makefile
 - Comfortable with Linux and Mac OS environment
 - IPC: Pipes, Queues, FIFO, Message queue, shared memory, Socket
 - Synchronization Mechanism: Semaphore, Mutex
 - Thread programming, Socket Programming
 - Linux Device driver architecture: Registration, Insertion, Removal from kernel.
 - Static and Loadable kernel modules
 - Excellent problem solving skills; strong logical reasoning and solution oriented
 - General knowledge of networking TCP/IP, TCP three-way handshaking, DNS, DHCP , SMTP
 - Basic Understanding of SSL/TLS, PKI, HTTP/HTTPS
 - Working Knowledge on memory profiling tools such as Callgrind
 - Strong troubleshooting skills.
 - Able to resolve issues and support configuration issues for developers independently
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EXPERIENCE

DATA RESOLVE TECHNOLOGIES

Noida // Senior Software Engineer

10/2014 – 12/2020

- Design and develop software solutions for Corporate Data Leakage Prevention and EmployeeProductivity solutions
- Follow and contribute to established development methodology and engineering practices
- Perform research to acquire new knowledge necessary to perform assigned tasks and maintain a process of technological evolution
- Provides input to the work project plan, performs technical review of applications and peers' work and develops proposals for improvements
- Use network application performance measurement and application profiling tools to evaluate and improve system performance

- Work closely with the business and others in IT to develop new solutions and extend the functionality
 - Worked with management to create and execute an individual development plan
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PROJECTS

Insider Threat Management

Monitors all the nodes of the end point (Desktop) from where data can be shared with others like USB, Bluetooth, Network Application and Browser Activity. In addition to this it also provide the productivity report of endpoint user

- Intercept the D-BUS (Kernel) messages for USB and CD/DVD devices
- Net-filter queue framework and IP table is used to route the TCP and UDP network packet to user space for network data parsing and monitoring
- Sqlite Database is used to store monitored data and device info
- Data logs Converted in XML and JSON format before representation

Secure Email Gateway

Monitors all the email going out from the organization, prevents the sharing of sensitive Data And alerts the authorities based on the policy applied by the admin.

- Diverting mail to a user defined port via POSTFIX
- Parsing mail data and store it in the Postgres database
- Logs are converted to JSON format
- libcurl api is used to upload the monitored mail logs to the server

Proxy Server

A proxy server acts as a gateway between us and the internet. It's an intermediary server separating end users from the websites they browse. Proxy servers provide varying levels of functionality, security, and privacy depending on our use case, needs, or company policy

- Forwarded all the traffic to our Proxy Server
- Create a secure connection between the client browser and with remote Server as well
- Parse remote Server certificates and generate similar certificate signed by our CA Root certificate to get authenticated by Server
- and Fetch Response from Remote Server

Secure Print Gateway

Monitors and control all the print request given by users in an organization

- Designed the architecture
 - CUPS api to get all the jobs in the printer queue
 - Sqlite database is used to store Data logs
 - SOAP is used to deliver the logs to server
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ACADEMIC PROJECT

MAJOR: Mobile controlled land rover:

Technology Assembly

Team size 4

Description This is a device that can be used in navigation where it is difficult for a human being to survive. Due to the use of DTMF technology it can work at any place which has GSM connectivity.

MINOR: Humidity and temperature measurement:

Technology Assembly

Team size 2

Description This device is used to measure the change in humidity and temperature in an atmosphere and take steps to control the change. This device can be used in various industries where the change in atmospheric conditions play a vital role like Medicine industries, paper industries etc.

CERTIFICATIONS

- 9 Months training on Embedded software Engineering from Emblogic pvt. Ltd.
- 6 weeks training on Embedded system & Robotics from TATA CMC Limited.
- 4 weeks training on PCB design & Manufacturing from ELECTRONICS SERVICE & TRAINING CENTRE (Govt. of India society, Ministry of Micro, small & medium enterprises).

HOBBIES & INTEREST

- Computers
- Swimming
- Gardening
- Photography
- Playing Video Games

EDUCATION

- **HNB Central University, SOET**
Bachelors in Technology : Electronics & Communication 2009 –2013
- **SACRED HEART SCHOOL**
12th 2007 –2008
- **DAV PUBLIC SCHOOL**
10th 2005 –2006