SHALEEN BATHLA

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TECHNICAL SKILLS

- Proficient in Data Structures and Algorithms
- Programming Languages : C, Python, C++, Java, Javascript, Rust
- Scripting Language : Bash, Python
- Database Language : MySQL, NoSQL (MongoDB)
- Web Technologies : HTML, CSS, JS, Node.JS, Express.JS, Flask
- Machine Learning : DNN, CNN, OpenCV
- Networking : Socket programming, wireshark etc.
- Source Control Management : git, svn
- Operating System : Multithreading, Synchronization
- Debugging : gdb, valgrind, ebpf, gprofng, systemtap, drgn, ftrace, crash, heaptrack
- Userspace : containers, cgroups, docker, podman, selinux etc
- Cloud : Oracle Cloud Infrastructure (OCI)
- System Administration : User and Package management, System Monitoring
- Others : qemu-kvm, systemd, sosreport, sendmail, unzip, bind, abrt, irqbalance etc

WORK EXPERIENCE

Oracle (July 2021 - Present) (2 years 7 months)
Senior Member of Technical Staff (SMTS) / Member of Technical Staff (MTS)
Team : Oracle Linux   Specialization : Userspace and Virtualization
- Started as MTS and got promoted to Senior MTS in September 2023 (after 2 years)
- Expertly analyzed logs and debugged applications to resolve production-grade issues.
- Developed a virtualization project enabling vNUMA and many other enhancements for Exadata DB
- Performance - analysis and enhancements, Feature additions/ enhancements
- Presentation of technical talks to various teams
- Recommended optimal configurations using demonstrated in-lab tests that optimized storage by nearly 15.7%
- Contributed fixes to open-source projects (listed below)

INTERNSHIP EXPERIENCE

SDE Intern (Networking) at ComCode Technologies Pvt. Ltd, Mohali (Jan 2020 – May 2020)
Project Name : *SCTP module in SIGTRAN Stack for ComCode in C++*
- Developed a statically linked library using Google Protocol Buffers (protobuf) for messages.
- Developed applications that used the above library for exchanging messages optimally while using the TCP, SCTP protocols via socket programming.
- Developed application layers of SCTP module for the SIGTRAN stack to exchange messages.
- Message transfer rate analysis (via wireshark and tcpdump) which demonstrated 25-30% speed increase.

OPEN-SOURCE CONTRIBUTIONS

- sysstat : https://github.com/sysstat/sysstat/commits/master/?author=shaleenbathla (3 commits)
- osinfo-db : https://gitlab.com/libosinfo/osinfo-db/-/commits/main?search=Shaleen%20Bathla (6 commits)
- libvirt : https://gitlab.com/libvirt/libvirt/-/commits/master?search=Shaleen%20Bathla (7 commits)
- libvirt-tck : https://gitlab.com/libvirt/libvirt-tck/-/commits/master?search=Shaleen%20Bathla (4 commits)
- samba : https://gitlab.com/samba-team/samba/-/commits/master?search=Shaleen%20Bathla (3 commits)

EDUCATION

- B.Tech – NIT Kurukshetra (2017-21) – CGPA 7.8
- XII – CBSE – Seth Tek Chand Public School, Kurukshetra (2016-17) – 81%
- X – CBSE – SM Arya Public School, New Delhi (2014-15) – CGPA 8.8

PROJECTS

- Gender and Age Detection AI website
    - Predicting a user's age and gender using Machine Learning.
    - Flask framework for website interface.
    - Display of Real-time FPS (frames per second) over time.
    - Feature to select and switch between models for face, age, gender detection in real-time.
    - Comparative analysis of FPS with different combinations of GPU, CPU, RAM, AI model.
- Weather website
    - https://shaleen-weather-app.herokuapp.com
    - MapBox API for geolocation
    - Darksky API for weather prediction
    - Web UI for location input made using Node.js
- Notes app : Written in Node.js to add, remove, list, read notes from command line

COMPETITIVE PROGRAMMING

- Codechef : Rating: 1614(max) , August Long Challenge Global rank : 1430
- Codeforces : Rating: 1366(max)
- HackerRank : 5-Star profile in Problem Solving
- proxy-test-1 contest : AIR: 10 (HackerRank Platform)
- Hackerrank : Problem Solving Certificate