Vishal Chourasia

LinkedIn://itsvishal7

Email : id.vishal07@gmail.com
Mobile : +91-8802732999

EDUCATION

Indian Institute of Technology Kanpur — UP, India
Master of Technology in Computer Science; CPA: 8.22 — *2018 – 2020*

A.P.J. Abdul Kalam Technical University — UP, India
Bachelor of Technology in Computer Science; Percentage: 67.98% — *2014 – 2018*

EXPERIENCE

IBM — Bengaluru, Karnataka
Software Developer, CPU Scheduler Team — *June 2022 - Present*
- Contributed to Linux CPU scheduler enhancements including EEVDF and sched-ext frameworks, while actively collaborating with upstream community for bug resolution and patch reviews
- Performed critical performance analysis across SMT modes and kernel debugging using ftrace, perf, and bpftrace tools to optimize system behavior

Samsung Research Institute — Bengaluru, Karnataka
Senior Engineer, Infra Services (Professional Certified) — *January 2021 - June 2022*
- Developed APIs for search and support of the Search Platform.
- Worked on spring framework, and integrated various modules such as Spring Security, Spring Actuator
- Implemented support for DYM(Did You Mean) and subjective queries for post production scenarios

PROJECTS

CRYPTODEV — IIT Kanpur
Course Project, Advanced Operating Systems, C — *Jan 2020 – Feb 2020*
- E2E implementation of device driver for a PCI character device supporting en/de-cryption using MMIO or DMA in all possible scenarios, i.e., single process and multi-process which can also be configured to raise Interrupt after the processing is completed.

Secure File Storage and Sharing — IIT Kanpur
Course Project, Computer Systems Security, GoLang — *Feb 2019 - Apr 2019*
- Formed a design to securely store files on the server that supports secure sharing amongst clients and also facilitates revoking the shared access. Facilitates storing files, loading files, efficient appending to files, sharing files and revoking share access. Used cryptographic primitives to ensure CIA properties.

Consensus Algorithms — IIT Kanpur
Course Project, Distributed Systems — *Oct 2018 – Nov 2018*
- Implementation of consensus algorithms for distributed systems namely PAXOS, RAFT and Oral Message Protocol for Byzantine Failure Model

MASTER'S THESIS WORK

Crime Data Prediction using Bayesian Hierarchical Probabilistic Models — IIT Kanpur
Under Prof. Nisheeth Srivastava — *Feb 2019 - Apr 2019*
- Analysis to UP Police crime dataset. This project required preprocessing, fitting heirarchical probabilistic model to predict crime pattern based on demographic and economic data.

PROGRAMMING SKILLS

- System Software (c/c++), Scripting(python, lua), Web Services (java,sql), iOS App (swift)

INTERESTS

- Operating Systems, Linux Kernel Programming, Computer Architecture