HERSH DHILLON

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EDUCATION

Georgia Institute of Technology, Master of Science, Computer Science   August 2023 - Present

Indian Institute of Technology (IIT) Ropar, B.Tech in Computer Science   August 2017 - May 2021
Department Rank 5, Institute Rank 8   **CGPA : 9.17/10**

EXPERIENCE

Flipkart   June 2021 - August 2023
Software Engineer II, Infrastructure as a Service (IaaS) team @ Flipkart Cloud   *Bengaluru, India*

- Led the Asset Management and Reporting project. Designed, developed and maintained the highly available Infra Management stack. This new stack performs up to 4x faster on server onboarding benchmarks. Developed the reporting infrastructure to provide visibility fine-grained visibility into hardware maintenance.
- Developed a Zero-Touch-Provisioning (ZTP) server orchestration service to save on SRE bandwidth which led to a 50x speedup in provisioning for a batch of 1000 servers. Designed and implemented automatic workflows for Network Attached Storage devices for the ZTP service. Performed on-call duties for IaaS and the whole of FK cloud. Mentored project interns and received an **Exceeds Expectations** rating in both the performance reviews and got promoted to the SWE-II level.

Infurnia   Jan 2021 - May 2021
Software Engineering Intern   *Bengaluru, India*

- Built the Windows Design Application. Developed custom graphics engines based on Vulkan(3D) and Cairo(2D).
- Designed and built a component library on MFC to replicate the UX of a modern web-based app.
- Found and squashed a critical memory leak in the design library that caused crashes and affected app availability.

D.E. Shaw Group   Apr 2020 - Jun 2020
Software Engineering Intern   *Hyderabad, India*

- Built a collaborative Rich Text Editor Widget for an internal web application and shipped it to production.
- The widget helped end users document and share findings, insights and hypotheses from detailed dashboards.

PROJECTS

- Open Source   Jun 2020 - Present

- **Member@GaTech DB Group** Working on EvaDB[LINK] a database to build AI applications with just a few lines of code. Recognized for my contributions to the 0.3.4 release[LINK] by rewriting the parser implementation for custom functions in EvaDB. Designed and developed configuration management in EvaDB to resemble the SQL config operations supported by open-source DBs like postgres. [SET command] [SHOW command]
- **Layer5 Ex-maintainer of Service Mesh Performance** (SMP)[LINK]. Built the pipeline for the SMP Github Action to be run on self-hosted runners to run load tests on personal hardware. Created Helm Charts to run the Cilium Service Mesh Adapter with Meshery. Organized office hours for SMP at **KubeCon, 2022**.

- Examining the Influence of Personality and Behavior on Hirability, Accepted at ICVGIP '23 Research at IITRpr and UCanberra to understand the cues an ML system looks at while making hiring decisions.[PAPERv1]

SKILLS

Languages	C, C++, Python, Java, Go, JavaScript(Intermediate),
Frameworks and Libs	Django, Flask, Express, React, Stackstorm, Tensorflow, Pytorch, Scikit-Learn, Istio
OS, Virt	Linux, Windows, MacOS, KVM, LibVirt, Docker, Kubernetes

OTHER ACHIEVEMENTS

- **Top 0.13% of candidates in JEE Mains and Advanced 2017** and **Top 0.1% of candidates in KVPY 2017** and was awarded the KVPY scholarship for scientific research