

+ HEMANT PANDEY +

MSCS @Georgia Tech · Systems

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CORE COMPETENCIES

Systems & Infrastructure: VFS and FUSE, IPMI, PKI/TLS, Boot Process, Networking Tools

Frameworks: Pipecat, Temporal, Bazel

Databases: Postgres, Redis, etcd

Development: Go, Python, eBPF

Observability: OpenTelemetry, LGTM, Prometheus, Pyroscope

EXPERIENCE

Generalist Engineer

Dec 2025 - June 2026

Zamp.ai

Bengaluru, India

- Worked on a Temporal-driven agent/harness.
- Worked end-to-end on a voice agent which interplays with the long horizon harness:
 - Hot-swappable transport abstractions with LiveKit as main WebRTC infra.
 - Asynchronous delegation and notification system (chimera): Redis pubsub as coordination channel.
- Helped migrate from a disaggregated LGTM stack to a single otel-collector; gave internal education sessions on metrics and flamegraph analysis.
- Mentored juniors through feature additions like introducing audit logging to the app.

SDE-2

Nov 2025 - Dec 2025

Sarvam - Harness Engineering

Bengaluru, India

- Setup observability: application + infra using loguru, otel, signoz.
- Contributed to the internal terraform plugin for authoring the in-house harness workflows.
- Worked in a Bazel-driven Python monorepo, made dev rebuilds much faster by (ab)using bazel's test caching for docker image loads.

Member of Technical Staff

Jul. 2022 - October 2025

Nutanix - Microservices Platform

Bengaluru, India

- Refactored the load balancer controller and reduced memory and cpu usage by 90%.
- Helped unify multiple envoy reverse proxies in the cluster to a single; Designed, implemented and benchmarked migration strategy for brownfield clusters to support upgrade with 0 downtime.
- Found a zero day vulnerability with binary forensics in app code leading to full system compromise.
- Created a FUSE filesystem for the Nutanix in-house KV-style DB.
- Automated full provisioning/repair flow for compute nodes with faulty boot disks, from baremetal to Kubernetes, to reclaim unused compute power for CI workloads.
- Built tooling for retrospective log analysis: a log standardizer that backfills 2-10GB static bundles into Loki for RCA, and a sysstats converter to OpenMetrics format for timeline correlation.

Intern - Member of Technical Staff

Jan 2021 - Jul 2021

Nutanix - Microservices Platform

Remote

- Backup and restoration flow for a stateful microservice platform; Cut down time to recovery from hours in manual method to minutes.
- Implemented logic to scrub old keys and relegitimize trust chains and certificates in the system after recovery on new host.

PROJECTS

devd — MicroVM-based development workspaces powered by libkrun. Each workspace runs its own Linux kernel via Hypervisor.framework with 1s boot and zero background overhead — no Docker Desktop. Supports live workspace switching with transparent port routing.

constellation — Automated bare-metal provisioning, imaging, and health monitoring over IPMI for datacenter nodes with failed boot drives. RESTful API and CLI for fleet management.

logninja — Interactive TUI for coarse refinement of massive log bundles. Real-time regex filtering with live size estimates and targeted export.

cert-inspector — CLI tool to inspect and visualize all X.509 certificates on a filesystem, including trust chain analysis.

EDUCATION

Georgia Institute of Technology

Masters of Science, Computer Science

- Systems track

2026 - Present

Atlanta, Georgia

National Institute of Technology, Kurukshetra

Bachelor of Technology, Information Technology

- CGPA: 9.3
- Internship Coordinator for the CS/IT batch.

2018 - 2022

Kurukshetra, India