Puneeth N Naik

puneethnaik60@gmail.com | +916362960529 Github:**Puneethnaik**, **puntertram**

FXPFRIFNCF

SALESFORCE | Member of Technical Staff

Aug 2023 - Present | Hyderabad, India

- Splunk on Alibaba/Kubernetes: Enabled production rollout with zero regressions, establishing the standard onboarding model for new environments.
- Operator Debugging and Stabilization: Resolved critical Splunk operator failures blocking production and mentored peers on debugging techniques, improving team incident resolution efficiency.
- Patch Pipelines and DIY Releases: Built and onboarded pipelines to DIY model, reducing release times by 95% (days -> hours) and standardizing processes across teams.
- Puppet Upgrade and Runtime Migration: Upgraded Puppet v5->v7 and migrated workloads to RHEL9 across Splunk-on-EC2 (1500+ hosts) and Splunk-on-Kubernetes
- Auto Index Management: Automated Splunk index lifecycle for new Salesforce cells, cutting provisioning time by 95% (days -> hours)
- Log Flow Visualization: Architected, implemented end-to-end log flow mapping from source to the sink, reducing operational toil by 83%, accelerating on-call troubleshooting.
- Long-Term Retention: end-to-end ownership of S3 freeze component and implemented STS token auto-refresh, eliminating manual intervention and enhancing system reliability and uptime.

SALESFORCE | INTERN

May 2022 - Jul 2022 (FutureForce) | Hyderabad, India

- POC for EC2 -> EKS Migration: Built a near production-ready POC to migrate log storage from EC2 to EKS, benchmarking performance under simulated loads. Reduced patching and Day-2 ops by 90%
- Enhanced service reliability by defining SLOs with full observability, authoring runbooks to reduce incident resolution time, and expanding deployments from single-AZ to multi-AZ
- Splunk Operator Enhancements: Contributed to Splunk operator by enabling additional metrics export and supporting custom node affinity policies, easing operations.

PROJECTS

EFFICIENT TRANSFORMER INFERENCE | THESIS PROJECT

- Characterized LLM inference workloads for **summarization** and **machine translation**.
- Implemented **GPU kernels** for LogitProcess and BeamSearchProcess, achieving up to **32% speedup** (indicBART) and **19%** (mBART).
- Reduced device-to-host transfers by 66-99% through multi-threaded GPU optimization.
- Applied DVFS-based energy optimization, lowering energy consumption by 15% with minimal latency impact.
- Maintained one-shot deployment of experiments with fully automated scripts, optimized CUDA kernels, and SOPs for execution on HPC clusters at USC, IISc.

FDUCATION

INDIAN INSTITUTE OF SCIENCE

MTECH - COMPUTER SCIENCE AND AUTOMATION 07 2021 - 07 2023 GPA: 7.80 / 10.0

RAMAIAH INSTITUTE OF TECH-NOLOGY

BE - COMPUTER SCIENCE AND ENGINEERING 07 2015 - 07 2019 GPA: 9.19 / 10.0

SKILLS

Programming: Go, C/C++, Python **Machine Learning / Al:** PyTorch, Huggingface Transformers, Energy-aware LLM inference

DevOps / Infrastructure: Docker, Kubernetes, Slurm, GPUs, CUDA, Linux, Linux Kernel internals

Tools / Build: Git, Jenkins, CMake, Makefile,

Pybind

OPFN SOURCE

Xterm.js (TypeScript Terminal Emulator, *19k)

- Created API to turn off scrollbar.
- Implemented escape-sequence support to disable scrollbar and clear scroll buffer.
- Developed API to make opaque selection color translucent, improving text readability.

AwaitWhat (Asyncio Dependency Visualizer. *40)

 Built API to display the task awaited by asyncio.wait and remaining timeout.