Sarthak Narayan

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PROFESSIONAL EXPERIENCE

Autodesk Toronto, Canada

Software Engineer *07/2024 – Present*

- Drove the migration of Trino from x86 to Graviton instances, achieving a 50% performance improvement while reducing compute costs by ~11%.
- Spearheaded the transition from EMR on EC2 to Trino on EKS, enhancing reliability and reducing operational costs by ~50%, while significantly improving cluster startup times and enabling dynamic autoscaling.
- Designed and implemented an API-based access control service for the data lake, eliminating manual support tickets and reducing data access request time by ~90%.
- Built Dynatrace dashboards and proactive alerting systems for big data services, improving incident response time by ~40% and reducing Mean Time to Recovery (MTTR).
- Centralized log aggregation by forwarding structured logs to Splunk, streamlining observability and reducing debugging time by ~35% for the on-call team.
- Streamlined onboarding for new data initiatives, automating the setup of underlying infrastructure components, which accelerated team onboarding by ~60% and significantly reduced support overhead.
- Deployed Spark History Server on EKS and seamlessly integrated it with existing data workflows to improve developer efficiency and reduce Spark job troubleshooting time by ~50%.

16 Bit Inc Toronto, Canada

Software Engineer *09/2022 – 07/2024*

- Achieved a notable 50% decrease in costs by redesigning the AWS architecture, while simultaneously strengthening product security.
- Streamlined development efficiency by establishing an automated CI/CD pipeline with GitHub Actions, enhancing the overall code quality, and expediting release cycles by 50%.
- Optimized application deployment by using ArgoCD with Kubernetes, streamlining updates and installations leading to a reduction in downtime and an increased operational efficiency of 40%.
- Maximized reliability through proactive system monitoring and alerting with Prometheus and Grafana, reducing downtime by 30% and ensuring seamless operations.
- Enhanced software reliability by writing thorough unit, integration, and end-to-end tests resulting in comprehensive code coverage and reducing post-release bugs by 50%.

Oracle Bengaluru, India

Member Technical Staff *07/2021 – 08/2022*

- Achieved a 50% decrease in bug reports by architecting a Linux system daemon that monitored application health, executed automatic restarts upon crashes, and meticulously recorded root causes for analysis.
- Boosted developer productivity by implementing efficient bash automation scripts for virtual machine configuration saving 3 hours per week.

EDUCATION

University of Toronto Toronto, Canada

Masters in Computer Science *09/2022 – 12/2023*

TECHNICAL SKILLS

AWS, Linux/Unix, Terraform, Kubernetes (k8s), Python, Testing, Docker, Git, Automation, Github Actions, Prometheus, Grafana, Helm, Infrastructure as Code (IaC), ArgoCD, GitOps, Backend, Microservices, JIRA, Monitoring, Observability, Cloud, SaaS, PostgreSQL, Teamwork, Networking, DevOps, Agile/Scrum, Object Oriented Programming (OOP), Communication Skills, Data Structures & Algorithms, CI/CD, System Design, SRE, Distributed Systems, Collaboration, Problem Solving, Cross Functional, Ownership, Leadership