

# Sarthak Narayan

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## PROFESSIONAL EXPERIENCE

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### Autodesk

#### Software Engineer

Toronto, Canada

07/2024 – Present

- Migrated 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 by 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

09/2022 – 07/2024

#### Software Engineer

- 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

07/2021 – 08/2022

#### Member Technical Staff

- 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 per developer.

## EDUCATION

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### University of Toronto

Toronto, Canada

Masters in Computer Science

09/2022 – 12/2023

## TECHNICAL SKILLS

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AWS, Linux/Unix, APIs, Terraform, Kubernetes (k8s), Python, Testing, Debugging/Troubleshooting, Docker, Automation, Infrastructure as Code (IaC), Backend, Microservices, Cloud, PostgreSQL, Redis, SQL/NoSQL, Teamwork, Networking, Agile/Scrum, OOP, Communication, Data Structures & Algorithms, CI/CD, System Design, SRE, Distributed Systems, Collaboration, Problem-solving, Cross-functional, Ownership, Leadership, Integration tests, Java, Clean code, HTTP, JSON, MySQL, Protocol Buffers