

# ROSHAN NARAYAN

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Software Engineering tech lead with a strong background in backend development and cloud infrastructure.

## EXPERIENCE

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### Software Engineer, Two Sigma

Oct 2021 – present

#### Technical Lead, Connected Cloud at Two Sigma

##### Technical

- Architected, shipped, and maintained the infrastructure-as-code platform for the deployment of Google Cloud Platform (GCP) infrastructure at Two Sigma
- Scaled the system from GA to supporting 3000+ GCP projects and over 50000+ GCP resources backed by Terraform
- Built a workflow engine and a suite of user-facing tools for modelers and engineers to rapidly deploy cloud infrastructure, reducing deployment times from 1-2 days to 15 minutes
- Significantly advanced the Terraform developer ecosystem at Two Sigma, including adding a Terraform Module Registry and simplifying authentication
- Designed a policy engine for streamlining the Terraform code change review process, reducing developer merge request wait times from 1 day to 2 minutes
- Partnered with multiple teams throughout the platform engineering organization to transition infrastructure from bespoke configurations to standardized infrastructure-as-code

##### Leadership

- Mentored and onboarded 3 engineers to the platform, providing technical and personal guidance throughout their development
- Define areas of investment across feature development and platform risk reduction, and identified and executed on multiple initiatives to improve the reliability of the platform

#### Seamless Authentication

- Architected and built a solution for simplifying cloud authentication from on-premise Kubernetes to GCP
- Collaborated with 4 teams on an org-wide initiative to decommission a legacy authentication server in favor of a widely-used open-source solution

#### LLM Platform

- Implemented numerous scalability improvements to the Azure OpenAI model deployments at Two Sigma
- Deployed OpenAI models across multiple regions for use in production trading models and internal chatbot tools

### Software Engineer, Clumio

Feb 2020 – Aug 2021

#### Enterprise Compute Cloud Data Protection

- Architected, designed, and delivered the core data protection feature set of Clumio Cloud Protect platform.
- Implemented end-to-end EC2 Instance, Machine Image, and EBS volume restores along with the integration of Clumio Policy & Resource management of customer data in AWS Cloud.
- Engaged with several enterprise customers through their evaluation process and worked with customer success teams to ensure successful customer onboarding.

#### Multi-account management

- Built a service to automate provisioning and management of customers' AWS accounts, resources, and data sets.

## EDUCATION

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### University of Michigan, Ann Arbor. BSE Computer Science

Aug 2016 – Jun 2019

Graduated in 3 years. GPA 3.6. GRE 338 (170Q, 168V)

## SKILLS

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- Languages: Python, Java, Golang
- Technologies: GCP, AWS, Azure, Terraform, Kubernetes