

Rohan Kumar

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EXPERIENCE AND OPEN SOURCE WORK

Fold

September 2023 - Present

Software Engineer (Contract)

- Built and deployed a robust monitoring stack (OpenTelemetry, Prometheus, Grafana, AWS X-Ray), ensuring comprehensive infrastructure visibility for proactive issue resolution.
- Helped the team in pinpointing and addressing performance bottlenecks in PostgreSQL and Redis, resulting in enhanced system efficiency.
- Implemented ECS cluster auto-scaling, optimizing performance and cost efficiency through dynamic workload adjustments.

DeepSource

April 2023 - September 2023

Software Engineer

- Developed DeepSource runner which was an **open-source** on-prem solution for orchestrating codebase analysis runs on Kubernetes, ensuring seamless integration with the company's infrastructure.
- Built DeepSource on-prem **enterprise installation** using Helm and Replicated which deployed a stack of 15 services on the customer's infrastructure.
- Implemented cost-saving bin-packing strategies using custom **kube-scheduler** deployment across clusters reducing compute cost by 11%.
- Participated in **on-call rotations** for infrastructure reliability and issue mitigation.

Devfolio

June 2022 - April 2023

Software Engineering Intern

- Migrated the entire infrastructure to **infrastructure as code**, streamlining deployment processes and enabling higher flexibility and scalability.
- Migrated all services from VMs to AWS ECS, optimizing resource utilization and improving reliability.
- Handled critical database migrations end-to-end, including the transition from self-managed Postgres to AWS RDS and Redis to ElastiCache.
- Established end-to-end infrastructure monitoring with CloudWatch, Prometheus, and Grafana for improved system visibility and streamlined issue resolution.
- Worked with the product team to develop and maintain performant and scalable APIs for new features, using a range of technologies to ensure scalability and maintainability.

Argo Workflows

Jan 2022 - Present

Open Source Maintainer

Argo Workflows is an open-source container-native workflow engine for orchestrating parallel jobs on Kubernetes.

- Actively working with the core maintaining team in triaging issues, reviewing PRs, and fixing bugs.
- Maintaining the git artifact integration end-to-end.
- Contributed to the artifact garbage collector, wrote the Google Cloud GCS storage integration.

EDUCATION

Kalinga Institute of Industrial Technology

Bhubaneswar, India

Bachelor of Technology in Computer Science and Engineering, GPA: 9.14

June, 2019 – May, 2023

TECHNICAL SKILLS

- **Languages:** Golang, Python, Javascript
- **Development:** PostgreSQL, NodeJS, Typescript, Django, React
- **Technologies:** Kubernetes, Terraform, Linux, Prometheus, Git, Redis, Nomad, AWS, GCP