

# Krishanu Konar

## Senior Site Reliability Engineer

A seasoned Site Reliability Engineer with 6 years of experience in designing, implementing, monitoring and maintaining low latency, highly available and scalable large-scale distributed systems. Currently building cutting edge products in Ad-Tech space for one of the largest contextual advertising platforms worldwide.



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## WORK EXPERIENCE



### SENIOR SITE RELIABILITY ENGINEER MEDIA.NET

JULY 2018 – PRESENT

- **Leading a team of 4**, working on overhauling the current Ad-Serving Infrastructure to move from older autoscaled VM backed services to a more efficient microservices based architecture using **Kubernetes**.
- Led the end-to-end development and deployment of **2 new lead generation products** in different verticals, with the first one becoming **profitable 5 months after launch**, with a **~6% close rate** and the second one still in its infancy.
- Implemented autoscaling infrastructure to handle sustained / huge spikes of traffic, handling more than **3 billion requests per day**.
- Building and maintaining **automated CI/CD pipelines** for rapid deployments of new features, as well as implementing **GitOps**.
- Maintaining infrastructure reliability and optimizations for serving **40-50k RPS**, with an SLO of 99 percentile response time of **10-100ms**. Managing more than 200 servers hosting different services while maintaining high availability of our systems.
- Led discussions/implementation on **system design** and **capacity planning** for services. Setup multiple different pipelines to **improve observability** across clusters and streamlining alerting platforms, reducing incident MTTA and MTTR significantly.
- **Cost optimization** for the company by de-coupling and segregating different processes within our serving infrastructure.
- Interacting with frontend/backend/database developers, product and QA teams to aid and implement different features.
- Rotational on-call schedules and incident response to make sure our services see minimum downtime.



### SOFTWARE ENGINEERING INTERN DIRECTI

JANUARY 2018 – JULY 2018

- Worked on internal tools for managing AD information and Secret Management.



### STUDENT DEVELOPER / MENTOR GOOGLE SUMMER OF CODE - DBPEDIA

MAY 2017 – AUGUST 2020

- 2017: Worked on "Wikipedia List-Extractor" project, which focused on developing a tool for the extraction of relevant but hidden data which lies inside lists in Wikipedia pages, form appropriate RDF triplets and extend the DBpedia dataset.
- 2018: Mentored a student on "TabList Extractor" project, which combined 2 DBpedia projects of list and table extractors.
- 2019: Mentored a student on an approach for "ontology alignment" with the use of an unsupervised mixed neural network.

## EDUCATION

### BACHELOR OF TECHNOLOGY - ICT

DHIRUBHAI AMBANI INSTITUTE OF INFORMATION AND COMMUNICATION TECHNOLOGY

AUGUST 2014 – MAY 2018

### SECONDARY/HIGHER SECONDARY SCHOOL

KENDRIYA VIDYALAYA

APRIL 2011 – MARCH 2013

### PUBLISHED PAPERS

- OntoConnect: Results for OAEI 2020 Published in OM @ ISWC 2020
- OntoConnect: Unsupervised Ontology Alignment with Recursive Neural Network Published in SAC 2021

## SKILLS

- Strong designing, debugging, troubleshooting, problem analysis/resolution and decision making skills.
- Proven experience in a high volume, high availability infrastructure working in a 24x7 production environment.
- Experienced with Unix system internals and Networks and proficient in system-level programming and scripting.
- Excellent analytical and prioritization and performance analysis skills.
- Strong written and verbal communication skills and ability to work effectively across multiple teams, in order to effectively convey information to both technical and non-technical audiences.

## TOOLS

**Languages:** Python, Bash Scripting, SQL  
**Cloud Platforms:** AWS, Google Cloud  
**Operating Systems:** Linux, MacOS, Windows  
**CI/CD:** Git, Github/Gitlab, Jenkins, ArgoCD

**Orchestration/Management:** Puppet, Terraform, Docker, Kubernetes  
**Monitoring/Alerting:** ELK, Grafana, Prometheus, Nagios, Pagerduty  
**Other Tools:** Redis/Aerospike, Apache, Nginx, HAProxy, Istio, Kong, Varnish, Jira/Planio/ClickUp, Pinot, Cassandra, AWS & GCP services