

Shivam Khandelwal

+91-945-777-7788 ✉ skbly7@gmail.com 🏠 shivamkhandelwal.in 📷 skbly7 🌐 skbly7 🐦 skbly7

EXPERIENCE

AIcrowd

CTO

Remote (Geneva, CH)

Oct 2019 - Present

Build the technical team of the MLOps startup from 0 to 10 members, including responsibilities ranging from individual contributions, handling external clients and community members.

- **Infrastructure:** Responsible for **architecting and managing** company-wide deployments and **vendor neutral** infrastructure, which was scaled to work for 0 to 60k+ users over time.
 - **CI Pipelines:** To run and evaluate ML models performance by automating using GitLab CI, Argo and Helm charts. These pipelines were triggered 200k times along with 4TB+ artifacts hosting.
 - **Kubernetes:** Managed multiple clusters deployed using kOps, and Azure managed kubernetes service.
 - **Observability:** Grafana dashboards and GitLab status pages using Grafana, Loki, and Prometheus for business usecases, infrastructure debugging and self-service portals for community members.
- **Benchmark Competitions:** Organiser for multiple ML benchmark competitions like MineRL Diamond, Airborne Object Tracking, Music Demixing, etc. This involved developing easy-to-use starter kits to onboard community members, dynamic docker runtime creation service, and community management.
- **Products:** Developed multiple products and POCs using Flask, Rails, and JS frameworks. The usecases include visualizing ML models performance, human-in-the-loop model evaluations, and hosting ML models.

Tower Research Capital

Core Engineering Software Developer

Gurgaon, IN

Jul 2018 – Sep 2019

Worked with HFT firm in the cloud services team and observability component with responsibility to manage ELK infrastructure and help other teams in better visibility into their cloud workloads.

- **ELK Stack:** Deployed and managed the infrastructure to collect logs from company wide cloud devices and selected onprem devices via filebeat, logstash and syslog. Worked to automate ELK deployments and provide self service deployment using GitLab CI, Strimzi Kafka **k8s operator** and **Helm**.
- **Alerts:** Implemented in-house aggregation and dashboarding of alerts using Alertmanager and Alerta.
- **Calico:** Worked closely with the network team for multiple **stability fixes** in the onprem k8s clusters.

INTERNSHIPS

Facebook

Production Engineering Intern

London, UK

Jun 2017 – Sep 2017

Worked with the MySQL Infrastructure team on the continuous **backup and restore system** to scale the deployment to multiple pools having different MySQL versions, configurations, etc.

IIIT Hyderabad

Student Systems Administrator

Hyderabad, IN

Aug 2016 – Jun 2018

Moved infrastructure (including Zimbra mail servers) to **high availability** setups using DRBD disks and Pacemaker, fail2ban based applications, institute-wide web proxy, LDAP, etc.

Berkman Klein, Harvard University

Google Summer of Code

Remote

May 2016 – Aug 2016

CodeChef / Directi

Software Engineering Intern

Remote (Mumbai, IN)

Dec 2014 – May 2017

EDUCATION

IIIT Hyderabad

B.Tech and M.S. by Research (pending thesis); GPA: 8.02/10

Hyderabad, IN

Jul. 2013 – Jun. 2018

PROGRAMMING SKILLS

Languages: Python, Bash, Javascript, Ruby

Technologies: Kubernetes, Docker, Grafana, Argo, Elasticsearch, Kafka, Conda, PyTorch, Flask, Django