

Akshay Kumar

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WORK EXPERIENCE

Sumo Logic, Core Ingest Team

Feb 2021 – Present

Senior Software Engineer (Tech Lead)

Sumo Logic, Redwood City, CA

- Leading the team's work on core data ingestion pipeline for logs ingestion and enrichment. Responsibilities include leading projects and mentoring junior folks to build highly scalable, fault tolerant low latency data pipelines supporting petabytes of scale ingest. Also includes working cross team to scope future projects and ensure timely delivery of current projects.
- Introduced multi-tenancy and AZ-awareness into the main ingestion pipeline. This has led to lower AWS costs (saved \$1M+) and lower E2E latency (20%+ drop) in the system while ensuring reliability.
- Integrated security analytics workflow for threat signals into critical ingestion workflow of Sumo Logic. This was an acquisition made by Sumo Logic and helps unlock security signals for our core customers.
- Rearchitected the leader election workflow so that leader election process is less stochastic during upgrades. Earlier, we used to have multiple outages due to leader flips during upgrades.

Google, Video Ranking, Recommendation & Brand Lift Optimization

April 2017 – Feb 2021

Software Development Engineer

Google LLC, Mountain View, CA

- Main ranking and brandlift optimization engineer on the team. Responsibilities included identifying projects, planning, scoping, designing, implementing and launching them. Also included working with other stakeholders (PMs, related teams), mentoring junior engineers/doing code reviews, etc.
- Built a video affinity signal model to uplift video content based on its video-seekiness score. Used this signal to launch video news on Google Assistant in emerging markets (India).
- Built a brand lift prediction model using DNNs. Explored various ideas like co-training, embedding based learning and transfer learning. Also did analysis of multiple ML models.

Google UK, AdSense Frontend Signup

Sep 2015 – March 2017

Software Development Engineer

Google UK, London, UK

- Frontend engineer working on acquiring premium publishers on Google AdSense.
- Added support for material design based phone verification in Google AdSense.
- Integrated payment's new infra into AdSense signup flow.
- Improved testing infra by writing web driver tests for major signup flows.

EDUCATION

Stanford University CGPA : 3.850/4.0

Stanford, CA

Artificial Intelligence Graduate Certificate

Sep 2017 – Mar 2019

IIT Kanpur CGPA : 10.0/10.0 (Master's), 8.9/10.0 (Bachelor's)

Kanpur, India

Bachelor's & Master's in Computer Science & Engineering

July 2010 – July 2015

TECHNICAL SKILLS

Languages: C++, Python, Java, Scala

Framework: Angular, GUnit, JUnit, Material-UI

Developer Tools: AWS, kubernetes, docker, MapReduce, Git, Google Cloud Platform, PyCharm, IntelliJ, Eclipse

Libraries: kafka, TensorFlow, pandas, NumPy, Matplotlib

PATENT & PUBLICATIONS

Parameterized Communicating Automata: Complementation and Model Checking *B. Bollig, P. Gastin and A. Kumar, FSTTCS 2014*

Stemming the flow of information in a social network *B. V. Srinivasan, A. Kumar, S. Gupta, K. Gupta, SocInfo 2014*

Identifying Target Customers To Stem The Flow Of Negative Campaign *Filed US20150113056A1*