Aayush Ahuja

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Experience

Facebook
London, UK

Staff Software Engineer - Traffic Quality, Business Integrity *Feb '19 – Present*
- Built huge scale systems to detect and prevent scripted activity ad-fraud across multiple revenue sharing surfaces on Facebook and Instagram like Audience Network, Instream Ads, Reels etc.
- Led multiple integrity projects both inside and outside the team and org which prevented hundreds of millions of dollars worth of yearly fraud.

Uber
Bangalore, India

Software Engineer II - Data Platform and Infrastructure *Jun '18 – Jan '19*
- Scaled and improved the performance of query gateway which is used to query Presto and Hive. After this it was serving 5000 weekly active users issuing more than 100k queries a day.
- Developed features which worked closely with Hive deployments. These included rate limiting, load balancing across HS2 and phased rollouts of newer Hive versions or execution engines.
- Technologies - Java, Hive, Presto, Hadoop, Python

Media.net (Directi)
Bangalore, India

Software Engineer - Spam Detection *Aug '15 – Jun '18*
- Designed and implemented data pipelines and statistical models from scratch to discover sophisticated spam behavior in ad network. Created and scaled up models for high frequency, affiliation, co-visitation (varied interests), and crowd-sourcing which detect suspicious visitors. The system ingests 50 million data points daily and performs calculations using over 3 billion data points daily.
- Generating device identifiers which serve as proxy to user identifiers in absence of login credentials. Utilized both deterministic and probabilistic methods to achieve this.
- Unsupervised detection of possible VPNs, offices and spam bots using K-Means clustering.
- Detecting browser and device faking by mining infrequent and lesser probable association rules.
- Built backend APIs for dashboards which are used to analyze data points to detect and confirm fraud patterns. Capable of showing aggregations over 200M data points.
- Led and mentored a team of other three engineers.
- Technologies - NodeJS, Python, MongoDB, Redis, Jupyter notebooks, Java, ExpressJS, Flask, Luigi

Groupon
Chennai, India

Member of Technical Staff - EDW *Jul '14 – Aug '15*
- Designed and implemented tool for managing ETL pipelines which facilitated data flow to and from the EDW infrastructure (Teradata, HDFS).
- Technologies - Python, Java, Play framework, AngularJS, Docker, MySQL, Teradata, Hadoop

Google Summer of Code
India

timvideos.us *May '13 – Oct '13*
- Code committer for the open source project Gst-Switch.
- Developed Python API for to control Gst-Switch server, and fixed various bugs in the core server.
- Technologies - Python, C, Gstreamer, DBus

Symantec Software Solutions
Bangalore, India

Software Engineer Intern *Jul '13 – Dec '13*
Built a Build Verification Engine for automating regression testing of VIP Enterprise Gateway in Java.

Education

BITS-Pilani, Pilani Campus
Pilani, India

B.E.(Hons) Computer Science 2010 - 2014 *CGPA - 7.22*