

Danish Rehman

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<https://bibiboot.github.io>

Education

- **University Of Southern California - Los Angeles, CA** Fall 2013
 - *Masters of Science, Computer Science*
 - Operating Systems, Computer Networks, Internetworking and Distributed Systems Laboratory

Skills

Technologies: Python, ReactJS, Redux, HAProxy, C, Flask, Cassandra, MySQL, RabbitMQ

Relevant Experience

- **Criteo - Migration team** Palo Alto, US
Software migration engineer 2017 – current
 - **Migrate Ad server from AWS to CRITEO maintained DC** (C#, Python, HAProxy, ReactJS)
Saved CRITEO 1 million a year by bringing a recently acquired company infrastructure from AWS to CRITEO owned DC's. 1. Design a 12 month plan of migrating the infrastructure. 2. Replacing AWS dependencies with opensource components in the application server. 3. Using HAProxy to redirect traffic to CRITEO dc. 4. Building monitoring tool to record latency for traffic redirection from AWS dc to CRITEO dc.
- **Cision - Social media analytics team** San Francisco, US
Full stack Engineer 2016 – 2017
 - **Atlas: Data rollup storage platform:** (Python, RabbitMQ, Cassandra) Designed and developed Atlas. Atlas is a high-throughput data rollup storage platform for CISION. It is suited to store time-based data and data is fed into the queue which is in turn read by the workers and rolled up subsequently and saved into the Cassandra
 - **Frontend:** (ReactJS) Worked in building graphs from the data received from analytics rollup system.
- **Brightroll - Video Ad exchange** San Francisco, US
Adserv Engineer - User mapping system 2015 – 2016
 - **Bulk user mapping post:** (C, Libevent, Urcu - linux lockfree datastructure) Created an in-memory lock-free data-structure to bulk post on data-store. Reduced the load on data store by 500%.
 - **Cookie matching pixel server:** (C, Libevent) Wrote from scratch a cookie matching server. Handling 60K QPS traffic.
 - **Rate limiting module:** (C, Libevent) A plug and play rate limiting module using token bucket algorithm. Able to rate-limit per partner per thread. Currently rate-limiting at 10K QPS.
- **Imageboard - similar to 4chan** San Francisco, US
Owner/Moderator 2016 – current
 - **Imageboard:** (Python, ReactJS, Redux, MySQL, Flask, Nginx, S3) A side project since January 2016. Currently it receives 3 Million page views per month. I wrote it from scratch including the moderation tool. Alex rank 106, 981. Rank in Italy 3, 626
- **Goibibo - Startup Travel website** Bangalore, India
Optimization Engineer 2010 – 2013
 - **Memcached adaptive expiry algorithm :**(Python, Memcached, MySQL) Implemented an algorithm to derive expiry time of cached data. Have filed patent for it. It increased the hit rate from 28% to 58%.