ABHIJEET MEHROTRA

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EDUCATION

M.S. Computer Science - Columbia University, New York *Expected Dec '17*
Courses: Analysis of Algorithms, Cloud Computing & Big Data, Operating Systems**,** Advanced Software Engineering, Artificial Intelligence, Design using C++, Databases, Modern *-as-a-Service Application Development (Serverless Cloud Applications)

B. Eng. (Hons.) Computer Science - BITS Pilani, India *Jul '09-Jun '14*
M. Sc. (Hons.) Economics - BITS Pilani, India *Jul '09-Jun '14*
First division

Languages & Tools: Java, C, C++, Python, SQL, HTML, MATLAB, Android SDK, Docker, Elasticsearch, AWS tools.

WORK EXPERIENCE

Tintri Inc, Mountain View – *Member of Technical Staff, Intern* *Jun'17-Present*

EMC Corporation, Bangalore – *Associate Software Engineer* *Aug'14-Jun'16*
- Part of the log management team that deployed the Elasticsearch, Logstash and Kibana stack & built enhancements on it.
- Part of the storage system team for ViPR (Software Defined Storage for cloud) which developed a custom distributed NoSQL Implementation used by the rest of the services to store transactional data.
- Single-handedly built the license module from scratch; a docker container that interacted using REST API's and had access control and load balancing features built-in.
- Added new features to ViPR (Geo-Replication team).
- Learnt the basics of distributed systems and implementations of Google File System, Zookeeper, Cassandra, Docker and BigTable. Also familiar with OpenStack and Hadoop.
- Awarded by both manager and team lead for excellent progress and going beyond the requirements of the job.

Amazon.com, Chennai - *Intern* *Jul'13-Dec'13*
- Part of the Kindle Development Team (Lab 126).
- Developed a self- learning android application and server side support for it (REST API).
- Implemented communications between devices working on different platforms (Android, Custom Linux) to implement cross-platform features with some of them supported by a server (Apache Tomcat, Java Servlet).

Citicorp Investment Bank Ltd, Singapore – *Intern* *May'12-Jul'12*
- Worked with the Corporate Sales & Structuring Team (Forex)
- Processed the data generated by the online ecommerce platforms of Citibank in Asia and linked it to existing datasets.
- Identified the thrust areas & potential clients for forex in Asia Pacific (country wise) using the Bloomberg terminal.

PROJECTS

Angelmatch – Matching non-profit organizations and schools who need volunteers for an event to potential candidates by leveraging their skillset and availability**.** Used: Play framework, Elasticsearch. AWS tools - SNS, SQS, Elastic MapReduce, Elastic Beanstalk. *Oct'16 – Dec'16*

Scheduler – Implemented a custom 'Startup-Boosted Multicore Round-Robin Scheduler' in the Linux kernel to work on android devices**.** Also added load-balancing features in the scheduler to optimize the utilization of the multiple cores available. *Oct'16 – Nov'16*

LionMart - A web application to buy and sell used items. The USP is proper cataloging and price prediction. The project was recognized and awarded by the visiting professor from J.P. Morgan. *Sep'16 – Dec'16*

TweetMap – An auto scaling application to stream tweets, calculate their sentiment and plot them on the map. *Oct'16 – Nov'16*

Indian Institute of Technology, Delhi - *Research Intern under Prof. Prem Kalra* *Jan'14 – May'14*
- Implemented the algorithm for "Seam Carving for Content-Aware Image Resizing" as described by Shai Avidan and Ariel Shamir using MATLAB. Features: Image upsizing and downsizing, object magnification and object removal.
- Created GUI and suggested modifications and improvements where possible.

Airport Management System - Implemented the simulation of a full-fledged Airport Management System using multiprogramming, process synchronization and inter-process communication in C. *Aug'12– Dec'12*

Efficiency of the Crude Futures Market – Studied the movement of NYMEX crude futures and spot prices from 1992 - 2011. Compared the predictions of the futures market with various theoretical models and calculated a measure of efficiency of the futures market in predicting prices. *Aug'12 – Dec'12*