

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++, Advanced Databases, Serverless Application Development, Programming Languages & Translators

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-Aug '17

- Worked on the cloud backend for the Analytics team (ETL, data storage and infrastructure).
- Optimized cloud resources: Fixed elasticsearch bottlenecks, optimized the spark cluster (reduced costs by up to 80%).
- Improved log bundle parser (rate determining step in the processing) performance by 15%.
- Setup the logging infrastructure and defined the log structure.
- Worked on customer feature requests in production.

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).
- Distributed Systems' technologies worked with: Google File System, Zookeeper, Cassandra, Docker, BigTable, OpenStack and Hadoop.

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

ElasticC++ - Developed a high level elasticsearch client library for C++. Built a Data Access Object interface over the tedious to use JSON payloads to provide an intuitive object interface.

Used the latest C++ additions: concepts and templates for type checking.

Frame Seller – Wrote a fully functional e-commerce application powered entirely by micro services running on AWS lambda, AWS * as a service offerings and 3rd party API integrations (like Stripe).

Jan '17 – Apr '17

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

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.
- Made improvements to the performance of the algorithm and created a GUI for easy usage.

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