

SAHIL BANSAL

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EDUCATION

- University of California, Irvine** Sep 2017 - Dec 2018
Master of Computer Science (3.92/4)
- Birla Institute of Technology and Science, Pilani, India** Aug 2009 – Jun 2013
Bachelor of Engineering, Computer Science (7.94/10)

SKILLS

- **Languages:** Java, C/C++, SQL, Python, Perl, Ruby, Matlab, XML
- **Database:** MySQL, DB2, PostgreSQL
- **Frameworks/Technologies:** Pub-Sub Systems, Message Queues, Guice, Hibernate, Jetty, Jersey, Jackson, etc.

WORK EXPERIENCE

- Salesforce, San Francisco - Software Engineer Intern** Jun 2018 – Sep 2018
- Increase **10%** throughput of current logging infrastructure by implementing more efficient internal queues
 - Decouple and optimize current monolithic logging framework to make it re-usable and easy to incorporate in microservices
- Flipkart, India - Software Development Engineer** Dec 2015 – Jul 2017
- Built and launched systems for new category – furniture with an estimated impact of **\$100 million** per year
 - Designed systems for **2%** reduction in order returns by adding functionality to update delivery address after dispatch
 - Designed and developed a product for 3rd party logistic vendors with no technology infrastructure to manage their shipments
 - Developed a **micro-service** to manage and provide all logistics vendors related information as a single source of truth
 - Redesign applications to be cloud native resulting in **70%** cost reduction after moving to shared cloud
 - Owned all design and development changes to an order enrichment service
- Goldman Sachs, India - Senior Technology Analyst, Equity Trading Platform Strats** Sep 2015 – Nov 2015
- Owned the critical equity exchange connectivity system for any changes and product owner escalations
 - Implemented changes in equity trading systems for regulatory and exchange mandated upgrades
- Morgan Stanley, India - Senior Technology Associate** Aug 2013 – Aug 2015
- Migrated data warehousing systems from DB2 to **massively-parallel-processing** GreenplumDB to increase scalability
 - Developed a RESTful service to fetch aggregated data from the data warehouse by generating dynamic queries
 - Prototyped a scalable and efficient file processor with **80%** reduction in memory footprint than its previous version
 - Developed a layered web-application to do account adjustments with alerting mechanism
 - Optimized Java code of existing file processor for 1.5 times performance gain
 - Modified existing SOAP service to generate dynamic drill down queries from OLAP cube to central data warehouse
- VMware, India - Member Technical Staff Intern** Jul 2012 – Dec 2012
- Evaluated **Hadoop distributed system** as a scalable approach to do computation on large data sets
 - Integrated Gemfire distributed cache in existing system to improve its performance

OTHER PROJECTS

- Built my own relational DBMS from scratch with record-based file storage, **B+ tree** indexing and provided query operators like filtering, projection, aggregation, joins, etc.
- Participated in **MIT Global Startup Labs 2013** to create a ride sharing platform which provided suggestions for fellow commuters based on one's social network and contact list
- Created an Employee Management System for National Center for Antarctic and Ocean Research, Goa, India