




Ankit Soni

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EDUCATION	Carnegie Mellon University: B.S. in Computer Science, Math Minor	June 2014
EXPERIENCE	<div><div>Applovin</div><div>Software Engineer – Platform Team</div><div><ul style="list-style-type: none">Setup and managed data processing infrastructure – including event ingestion to HDFS, Spark cluster & jobserver tuning & management, and a datasources API.Used to ingest 30B events daily into 1TB parquet dumps, query tables via JDBC, and powered daily machine learning jobs, business analytics, system debugging.Made open-source contributions to spark-jobserver to allow multi-user and HA (via multiple JVMs, akka-cluster, akka-remote)Scala, Java, Akka, concurrency, performance & memory optimization, Zookeeper.</div></div> <div><div>Amazon</div><div>Software Development Engineer Intern</div><div><ul style="list-style-type: none">Built a system to generate product recommendations for customers as they browse the web, using aggregated customer browsing data (Java, Spring, Guava, Python).Performed basic data analysis, and tuned an internal machine learning framework to build a data processing pipeline, with incremental updates.Analyzed data using Elastic Mapreduce(EMR), deployed on EC2 and stored output on S3.</div></div> <div><div>Avere Systems</div><div>Engineering Intern</div><div><ul style="list-style-type: none">Built an automated cross-browser/operating-system web-testing framework (Python, Selenium, jQuery)Developed system to automatically generate testing code applicable to any browser/OS from a DSL description of the test.Wrote a web application (Django) to dispatch tests, and to display, search and filter results of tests. Used to comprehensively test 30+ webpages automatically across 20 platform/browser combinations.</div></div> <div><div>Lunar X Prize CMU Team (under Red Whittaker – CEO Astrobotic Tech)</div><div>Publicity Team – Astrobotic’s Interactive Lab</div><div><ul style="list-style-type: none">Built an interactive lab that allows users to control a live camera, and other devices through the web. Built a queue for concurrent camera control requests without requiring users to create accounts or login.Set up networking stack, NATting, Dynamic DNS, and built both the client-side and server-side of the interactive lab web application. (Ruby-on-Rails/jQuery)Resulted in the team getting the most fans among the other competing teams for the Lunar X Prize (228 vs 125 for the 2nd place, +200 fans after project).</div></div>	<div>Oct 14 – Oct 15</div> <div>Summer 2013</div> <div>Summer 2012</div> <div>Spring 2011</div>
PROJECTS	<div><div>Chess Parser </div><div><ul style="list-style-type: none">Developed a PGN parser to parse chess games into move trees. (Scala, scalaz, atto)Adding ability to construct a game tree, and generate training puzzles.</div></div> <div><div>Hadoop/HDFS clone </div><div><ul style="list-style-type: none">Built a simplified clone of Apache Hadoop Map-Reduce and the underlying HDFSUsers can configure a cluster, and launch map-reduce jobs via a Java APIFault-tolerant system – Participant nodes can die & rejoin at any point. Replication factor is maintained, jobs are transparently re-scheduled.</div></div> <div><div>Question Answering System</div><div><ul style="list-style-type: none">Built a system to automatically answer questions based off a corpus of Wikipedia articles (Scala, Stanford Parser, OpenNLP, SistaNLP)Built and used components for Information Retrieval (Okapi BM25), Keyword Extraction, Named Entity Recognition, Co-Reference resolution.Ranked 2nd out of 15 teams, including graduate student teams.</div></div> <div><div>LiveWeb </div><div><ul style="list-style-type: none">Developed a Chrome extension that allows multiple people to browse and annotate the web together in real-time (Scala, JS, WebSockets)Won 3rd place at a Pittsburgh regional hackathon.</div></div> <div><div>Proxy Server</div><div><ul style="list-style-type: none">Built a multithreaded proxy server in C that handles HTTP/1.0 GET requests and binary data (e.g pictures, videos, audio). Supports concurrent requests & caching.</div></div>	
SKILLS	Programming: Java, Scala, Python, SML, Ruby, C, Haskell, jQuery, Bash. Familiar with Unix command line / shell scripting, git, vim, zsh. Distributed Systems	
EXTRA CURRICULARS	Member of the Chess Club, Plaid Parliament of Pwning (Security Research Group) SIFE – Active in promoting entrepreneurship on campus via competitions	