




Ankit Soni

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EDUCATION	Carnegie Mellon University: B.S. in Computer Science, Math Minor.		June 2014
EXPERIENCE	Uber	Software Engineer – Driver Growth	Jan 16 – Jun 16
	<ul style="list-style-type: none">Engineer on 5 person South-East Asia Driver Growth focused on region-specific features to drive growth on supply side. (Python, Flask, Tornado)Launched several experiments and features to increase funnel conversion and first-trip rate.Led a software migration on team that significantly reduced tech debt and allowed us to iterate faster.		
	AppLovin	Software Engineer – Platform Team	Oct 14 – Jan 16
	<ul style="list-style-type: none">Built the internal data analysis platform – including custom event ingestion to HDFS, Spark cluster setup, administration and tuning & APIs providing cached, partitioned data. The system ingested 30 billion/1TB events daily. (Java, Parquet, Spark, Scala, Akka).Worked closely with the data scientists to evolve the architecture and got from zero to a stable platform powering daily jobs to train predictive models in <6 months.Implemented the #1 requested feature to spark-jobserver project to allow our infra to handle multiple parallel jobs. 3rd most active contributor to the project.		
	Amazon	Software Development Engineer Intern	Summer 2013
	<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.		
PROJECTS	Avere Systems	Engineering Intern	Summer 2012
	<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.		
	Scala Lisp	 /scala-lisp	
	<ul style="list-style-type: none">Developed a Lisp interpreter in functional style with a REPL and tests (Scala)		
	Hadoop/HDFS clone	 /440-mapreduce	
	<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.		
EXTRACURRICULARS	Question Answering System		
	<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.		
	LiveWeb	 /liveweb	
	<ul style="list-style-type: none">Developed a Chrome extension that allows multiple people to browse and annotate the web together in real-time in a 24-hour hackathon. (Scala, JS, WebSockets)Won 3rd place at a Pittsburgh regional hackathon.		
	Proxy Server		
	<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.		
SKILLS	Distributed Systems – Fault Tolerance, Concurrency, Performance & Memory Tuning Data Analysis Platforms – Spark, Akka, Parquet Programming – Java, Python, Scala, others. Functional programming.		
EXTRACURRICULARS	Member of the Chess Club, Plaid Parliament of Pwning (Security Research Group) SIFE – Active in promoting entrepreneurship on campus via competitions		