Sumit Singh

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EDUCATION
Highest Degree: Masters in CSE, IIT Kanpur.

RECENT WORK
Software Engineer on Android Platform - Directi
Time: Feb 14 onwards.
Product: Tring - voip client.

- worked in Java, JNI, C, XML with emphasis on good code design.
- developed initial prototype alone using pjsip.
- worked in a team of 2 for initial 10 months.
- a significant amount of time was invested to ensure quality and specifically echo.
- experimented with a lot of voice/media stacks with some tweaks of our own.
- experimented with continuous build system and analytics.
- wrote functional tests for an earlier version of the app (no quality test).

Software Engineer on Android Platform - Directi
Time: Sep 13 - Jan 14.
Product: talk.to - rich text client.

- Tools: Ant, Monitor (Android Perfomance tool), Java profiler (YJP).
- Test: Unit testing(junit) and functional testing (android specific).
- Some great insights : e.g. reasons for low user onboarding(successful signup) rate, why pivoting the product (did twice when I was there).

Training project at Directi
Time: Jul 13 - Sep 13. Product: similar to twitter - web client and server.

- Languages: Java, Javascript.
- Build Tool: Maven.
- Database: PostgreSQL, Redis.
- Other: Java Spring MVC framework, Apache http server.

SELECTED RESEARCH WORK
Sumit Singh and Shashank K Mehta, *"An Improved Approximation ratio for Prize Collecting Steiner Forest Problem in Node Weighted Planar Graphs"*, part of M.Tech thesis.

Pawan Aurora, Sumit Singh and Shashank K Mehta, *"Partial Dergree Bounded Edge Packing Problem with Arbitary bounds"*, Proceedings of FAW-AAIM, Lecture Notes in Computer Science, vol 7924, pp 24-35, 2013.

Sumit Singh, *"A Local Approach for Identifying Clusters in Networks."*, arxiv:1203.4685, 2012.

Sumit Singh and Ayushi Garg, *"Towards The Adaptive Questionnaire Generation Using Soft Computing"*, Proceedings of NaBIC, pp 806-811, 2009.

M. TECH THESIS
The thesis was in the area of approximation algorithms under the guidance of Prof. Shashank K Mehta. We mostly worked on upper bounds for mainly graph based problems. We were able to improve the state of the art in the two of the three problems that we looked at (at the time of thesis defence).

ACADEMIC POSITIONS OF RESPONSIBILITY
Teaching Assistant for Algorithms II (Jan 12 - May 12).
Teaching Assistant for Randomized Algorithms (July 11 - Dec 11).
Teaching Assistant for C Programming Lab (July 10 - May 11).

INTEREST &
HOBBIES
playing snooker and basketball.

have settled for listening music as people struggled to realize my vocal talents.

trekking - discovered it recently and its fun. Thanks to Himalayas.