

Prashant Khurana

SOFTWARE ENGINEER

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Summary

Software engineer at [Dstillery](#), a data driven ad-tech company. Graduated from Rutgers with a masters degree specializing in theoretical computer science. I am passionate about working on algorithms and building large scale, time sensitive software. In my free time, I like to contribute to open source projects that I use regularly.

Education

Rutgers University

New Jersey, US

M.S. IN COMPUTER SCIENCE AND ENGINEERING

2013 - 2015

- GPA : 3.95/4

Netaji Subhas Institute of Technology (NSIT)

Delhi, India

B.E. IN INFORMATION TECHNOLOGY

2009 - 2013

- Grade : 80.25

Skills

Languages - Proficient Java, SQL, Spring, Vuejs, Javascript, Typescript

Languages - Familiar with AngularJS, C++, Python, Golang, Rust

Databases and tools Mysql, Cassandra, Kafka, Memcached, Hive, Git, Docker

Experience

Dstillery

NYC, US

SOFTWARE ENGINEER

July, 2015 - PRESENT

- Work on bidder platform, handling over 100 billion ad requests a day with response time < 80 milli seconds.
- Worked on various performance and feature enhancements on bidders such as Geo Targeting, Viewability Targeting, Homing devices for targeting home/visitor locations, Random Sampling of users to study impacts of different ads, etc.
- For many of the above features, added support in the frontend product (REST Based) which our customers use for setting campaigns with us.
- Integrated typescript and docker to the frontend product providing a stepping stone for other projects.

CS Department, Rutgers University

New Jersey, US

TEACHING ASSISTANT

Sep. 2013 - May 2015

- Taught Introduction to Computers and Their Application to freshmen students.
- Used Scratch programming language for Introduction to programming.

Barclays

NYC, US

TECHNOLOGY SUMMER ANALYST

June 2014 - Aug. 2014

- Worked as a Reporting Framework Application Developer for Trade and Transaction Reporting (TTR).
- TTR is a technology horizontal for all the existing Reporting Applications.
- Used Spring Framework, Messaging (Apache Camel)

Deloitte

Bangalore, India

TECHNICAL INTERN

June 2012 - July 2012

- Impact of ICD9 to ICD10 conversion on payers and providers in the healthcare system in the US.
- Created a report dashboard in BIRT-Business Intelligence Reporting Tool

Projects

Lower and Upper Bounds in Selection Problem

RESEARCH/SEMINAR IN CS

- Worked with [Prof William Steiger](#) on Bounds for Median Selection and Yao's Conjecture.

Get Visible

DATABASE SYSTEMS

- The aim was to detect the times of maximum visibility amongst friends on a number of social networks.
- Based on user's previous posts suggest the best time of day/week for them to post to achieve more discoverability.
- Technologies used : Python, MongoDB

Operating Systems

XV6 OPERATING SYSTEM

- Installing a Rootkit in xv6, Implementing : Signals, Threads, Memory Protection, Demand Heap Allocation, Copy on Write, Memory Mapped Files, Message Passing, Shared Virtual Memory

Luring Conditions and their proof of necessity through mathematical modeling

SOCIAL ENGINEERING

- Deals with masquerade detection, masquerading capability and efficiency of a luring model.
- Presented in International Conference on Big Data Analytics (BDA-2012), IIT Delhi. Printed in Springer, Lecture Notes in Computer Science, Vol. 7678, pp 148-157.
- [Paper](#)

GAODV: A Modified AODV against single and collaborative Black Hole attacks in MANETs

NETWORKING

- Detection of single and collaborative black holes in an ad-hoc network.
- Stimulation using glomosim in C.
- Presented in the 27th IEEE International Conference on Advanced Information Networking and Applications workshop HWISE-2013 (The Ninth International Workshop on Heterogeneous Wireless Networks)
- [Paper](#)

Routing in Opportunistic Networks

NETWORKING

- Developed Algorithms for routing in Opportunistic networks based on Last Contact Time, Last Contact Period and GPS locations.
- Simulation in One Simulator in Java

Extracurricular Activity

Google home integration

OPEN SOURCE

- Integrated Google home with Google Suite calendar.
- Github [link](#)

Slide for Reddit

CONTRIBUTING TO OPEN SOURCE

- [Slide for Reddit](#) is an unofficial reddit app for android.
- Contributed various features like adding shortcuts to view images, easy access to voting on posts, etc. Also did various bug fixes for reduced memory consumption and speed improvements.

Sphere Online Judge

ALGORITHMS

- Used to solve algorithmic problems on SPOJ.
- US Rank : 1466, US Rank : 58
- Technologies used : Java, C++

Open Source contribution

ANDROID

- Have contributed to [QuickLyric](#), [NewPipe](#) and [Always On AMOLED](#)

Bookworm

READING

- I try to read one technical book every 3-6 months.
- Few of the books I have read are : Refactoring To Patterns, Pragmatic Programmer, Code complete, Java Concurrency in practice, etc