

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.

Education

Rutgers University

M.S. IN COMPUTER SCIENCE AND ENGINEERING

- GPA : 3.95/4

New Jersey, US

2013 - 2015

Netaji Subhas Institute of Technology (NSIT)

B.E. IN INFORMATION TECHNOLOGY

- Grade : 80.25

Delhi, India

2009 - 2013

Skills

Good Java, Spring, SQL, Hive

Intermediate C++, Python, Javascript, AngularJS, Cassandra, Kafka, Flume,

Learning Vue.js, Rust

Experience

Dstillery

SOFTWARE ENGINEER

- Work on core piece of Dstillery's tech stack, the bidder
- We handle over 100 billion events per day with a response time < 80ms
- Worked on various projects such as Geo Targeting, Viewability Targeting, Random Sampling of users to study impacts of different ads, etc
- Also worked on various aspects of the UI product used by our customers to run campaign with us.
- Primary technologies used : Java, Spring, Groovy, Hive, Cassandra, AngularJs, VueJs, Typescript

NYC, US

July, 2015 - PRESENT

CS Department, Rutgers University

TEACHING ASSISTANT

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

New Jersey, US

Sep. 2013 - May 2015

Office Of Information Technology, Rutgers Univeristy

JAVA DEVELOPER

- Data dictionary contains description of keywords used for Course History, Scheduling, Admissions, etc at Rutgers
- Worked on the the redesign which is more modern and includes filtering and sorting of dictionary.
- Worked on the feature where users can create custom reports of keywords from dictionary
- Working [Demo](#)

New Jersey, US

Oct. 2013 - June. 2014

Rutgers University

GRADER (COMPILERS AND PRINCIPLES OF PROGRAMMING LANGUAGES)

- Assisted [Prof Uli Kremer](#) with grading of the assignments and exams.

New Jersey, US

Sep. 2014 - May. 2015

Barclays

TECHNOLOGY SUMMER ANALYST

- 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)

NYC, US

June 2014 - Aug. 2014

Deloitte

TECHNICAL INTERN

- 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

Bangalore, India

June 2012 - July 2012

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

Slide for Reddit

CONTRIBUTING TO OPEN SOURCE

- [Slide for Reddit](#) is an unofficial reddit app for android.
- Contributed various features and bug fixes throughout last year.

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 months.
- Few of the books I have read are : Refactoring To Patterns, Pragmatic Programmer, Code complete, Java Concurrency in practice, etc