

# Sambhav Satija

LOVES THINKING ABOUT SECURITY, CODE ARCHITECTURE & SYSTEM DESIGN

IIIT-Delhi, New Delhi, India

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## Skills & Education

Education **B.Tech - Computer Science and Engineering. IIIT-Delhi**, CGPA 7.76/10 till 7<sup>th</sup> semester.

Languages **Python, C**, Java, JavaScript

Tools **git, Django**, Android, memcached, nginx

## Experience

### Microsoft Research

Bangalore, India

RESEARCH INTERN | RESEARCHER: JACKI O'NEILL - TECHNOLOGY FOR EMERGING MARKETS

January 2017 - July 2017

Worked on developing technological interventions to understand whether providing information, coupled with motivations/nudges, can be used to improve loan adherence (microfinance) in low income communities.

### Google

Bangalore, India

SOFTWARE ENGINEERING INTERN | MANAGER: MANSOOR ALICHERRY

May 2016 - Jul. 2016

- Worked on a POC API endpoint for partners, improving upon the provided technical design document by making the architecture more secure and extensible.
- Learnt Google frameworks(Guice, Mockito, Bazel, Closure) and tools (Hibernate, Google Cloud PubSub, GCM, CloudSQL) to create a Java server on the AppEngine platform and a Chrome extension.

### IIIT-Delhi

New Delhi, India

DEVELOPEMENT INTERN

Apr. - Jul. 2014, Apr. - Jul. 2014

Developed and deployed a portal which streamlined the management of a mandatory course. I shifted from a procedural design to an event driven design in Django for independently controlling APIs and caches.

## Achievements & Honors

2017	<b>Grand Prize Winner</b> , AngelHack - Bangalore	Bangalore
2016	<b>Finalist</b> , 3rd in Indian leg of CSAW Finals organised by NYU.	CSAW, NYU
2015/6	<b>Finalist – twice</b> , Build The Shield security CTF. 2 <sup>nd</sup> in nationwide qualifiers (2016).	Microsoft, India
2015	<b>Winner</b> , Pentesting security CTF by PricewaterhouseCoopers	IIIT-Delhi, India
2016	<b>Second position</b> , Pentesting security CTF by ISGF-India	ISGW 2016
2015	<b>Winner - IBM</b> , AngelHack, New Delhi.	New Delhi, India
2015	<b>Winner - Pebble</b> , HackIndia.	Bangalore, India
2016	<b>RGSoc Coach</b> , Coach for team working on PyBee VOC project.	Rails Girls SoC

## Projects

- 2016 **Anonymous document sharing | Mentor: Sambuddho Chakravarty**, Ongoing research on creating an anonymous document sharing network using existing social networks.
- 2016 **Real time raytracer in C++/CUDA**, Implemented BVH to achieve 760X speedup. Implemented threadsafe worker queues to fix disproportionate workload and allow infinite ray bounces.
- Geometric constraint solver in C++/Qt**, This could convert scribbles to neat sketches. It understood tons of nested snapping techniques dealing with line segments and circles, like endpoint, center, tangent, parallel line and equal line length snapping.
- 2015 understood tons of nested snapping techniques dealing with line segments and circles, like endpoint, center, tangent, parallel line and equal line length snapping.
- 2013 **FindMyStuff**, Developed, deployed and maintaining a Google Maps and Facebook based lost & found portal in Django, which is being actively used.

## Responsibilities & Misc.

2015-16	<b>Teaching Assistant</b> , 2 courses: Operating Systems & Data Structures and Algorithms	IIIT-Delhi
2015-16	<b>Problem Setter</b> , HackCon '15, HackCon '16, Scripting Challenges v1/v3/v5	IIIT-Delhi
2014-16	<b>Speaker</b> , Core and introductory talks on Git, Django and Flask during college sessions.	IIIT-Delhi
2015	<b>OpenSource</b> , Small PRs in Django, Jinja2, crypto101 book.	