Sambhav Satija

Loves thinking about security, code architecture & devops

IIIT-Delhi, New Delhi, India

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Skills & Education

Education	**IIIT-Delhi**, CGPA 7.76/10 till 7 th semester. Expected graduation in November, 2017.
Languages	**Python, C**, Java, JavaScript
Tools	**git, Django**, Android, memcached, nginx

Experience

Microsoft Research — *Bangalore, India*

Research Intern | Mentor: Jacki O'Neill - Technology for Emerging Markets — *January 2017 - July 2017*

Working on creating technological interventions for improving financial capability for low income society. Our current work revolves around helping Bangalore auto drivers repay their loan on time.

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

2016	**Finalist**, 3rd in Indian leg of CSAW Finals organised by NYU.	*CSAW, NYU*
2016	**Finalist**, Build The Shield security CTF. 2nd in nationwide qualifiers.	*Microsoft, India*
2015	**Finalist**, Build The Shield security CTF.	*Microsoft, India*
2015	**Winner**, Pentesting security CTF by PricewaterhouseCoopers	*IIIT-Delhi, India*
2016	**Second position**, Pentesting security CTF by ISGF-India	*ISGW 2016*
2015	**Winner - IBM**, AngelHack, New Delhi.	*New Delhi, India*
2015	**Winner - Pebble**, HackIndia.	*Bangalore, India*
2016	**RGSoC Coach**, Coach for team working on PyBee VOC project.	*Rails Girls SoC*

Projects

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.
2015	**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.
2013-now	**FindMyStuff**, Developed, deployed and maintaining a Google Maps and Facebook based lost & found portal in Django, which is being actively used. I reiterated on the code architecture multiple times to decouple logic by shifting to an event driven paradigm.
2015	**Cloud infrastructure**, Set up an experimental virtualization environment using Xen Citrix.

Responsibilities & Misc.

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