

Saksham Chitkara

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<http://www.contrib.andrew.cmu.edu/~schitkar/> | [Github://saksham12](https://github.com/saksham12) | [LinkedIn://saksham-chitkara](https://www.linkedin.com/in/saksham-chitkara)

EDUCATION

CARNEGIE MELLON UNIVERSITY

Masters of Science,
Information Security

Aug 2017 - Dec 2018 | Pittsburgh, PA
Information Networking Institute
Scholarship Recipient - 2017

SRM UNIVERSITY

Bachelors of Technology in
Computer Science

June 2016 | Chennai, India
College of Engineering
GPA: 4.0 / 4.0

COURSEWORK

GRADUATE

Ubiquitous Computing* (08-736)
Computer Systems* (18-600)
Computer Security* (18-730)
Machine Learning* (10-601)

GRADUATE - AUDITED

Green Computing (08-840)
Building User-Focused
Sensing Systems (08-735)

SKILLS

Good:

Java • Python • C
Android • Django Framework
MySQL • Git • Vim • Shell Scripts

Familiar:

C++ • Matlab • Go • Assembly
HTML/CSS • \LaTeX

LANGUAGES

English - Academic Proficiency
Hindi - Native Speaker

AWARDS

- INI Fellowship, (2 of 150 students)
@ Carnegie Mellon University
- Research Fellow,
@ Carnegie Mellon University
- Best Project Award,
@ SRM University
- India's Best Brains, Rank 3/3700

EXPERIENCE

CARNEGIE MELLON UNIVERSITY | Research Associate

Jan 2016 – June 2017 | Pittsburgh, PA

- Lead a 5 person CMU team to manage a DARPA funded project (Privacy Enhanced Android) on improving the privacy and security of Android. Worked in collaboration with teams from UC Berkeley, Cornell and UC Irvine.

DELL INC | Software Engineering Intern

Summer 2014 | Chennai, India

- Wrote scripts to perform security automation and testing. All code was reviewed, perfected, and pushed to production.

RESEARCH

CONTEXT-AWARE PRIVACY MANAGEMENT | Synergy Lab, CMU

First Author Publication at ACM - IMWUT (UbiComp) 2017 | Android, Python

- Designed and built a Context-Aware library based permission model for Android which lead to 25% better protection and 30% reduced user decisions.
- http://www.synergylabs.org/yuvraj/docs/Chitkara_UbiComp2017_ContextAwarePrivacy.pdf

PRIVACY PROXY | CHIMPS Lab + Synergy Lab, CMU

Technical Report Published | Aug 2016 – Aug 2017 | Android, Go, MySQL

- An app for unmodified android devices to detect Personally Identifiable Information (PII) by analyzing the network traffic of the crowd.
- Used a VPN service to modify the private data in requests and improved the battery overhead of the system by 20%.
- <https://arxiv.org/pdf/1708.06384.pdf>

PROJECTS

PROTECT MY PRIVACY | Synergy Lab, CMU

Jan 2016 – Aug 2017 | Pittsburgh, PA | Android, C, Python, Django, MySQL | 30,000+ downloads

- Built an end-to-end app, which collects a user's privacy decisions, enforces them at the OS level. Built a service to collect and periodically transmit the decisions.
- Designed and implemented a Firewall which blocks Wifi and mobile data on a per app basis by interacting with the Android Kernel.

PRIVACY ENHANCED ANDROID | CHIMPS Lab + Synergy Lab, CMU

Jan 2017 – Aug 2017 | Pittsburgh, PA

- Constructed an all-encompassing purpose taxonomy for private data access on smartphones and separate out private data access on the basis of the purpose.
- Enforced data transmission to apps on the basis of data-usage purposes.

POP ON 7 | SDC Lab, SRM

Jan 2015 – July 2015 | Chennai, India | Android

- A published Android app, based around mathematics puzzles. Worked with Animations, UI and data collection.

PLAGIARISM DETECTOR | SDC Lab, SRM

June 2014 – Dec 2014 | Chennai, India | Python

- Detected Plagiarism in text files by using a n-grams approach.