# Saksham Chitkara

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### **FDUCATION**

# 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.
- Designed and implemented a Privacy-sensitive system which intelligently filters the PII before it leaves the device.
- 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.