Adithya Bhat

First year Computer Science PhD Student
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EDUCATION

PURDUE UNIVERSITY
PhD in Computer Science |
2018-current
First Year

NIT SURATHKAL | INDIA
B.Tech in Information
Technology | 2014-2018
Cum. GPA: 9.49/10.0 | #3/101

LINKS

Github: **adithyabhatkajake**
LinkedIn: **adithyabhatkajake**

SKILLS

PROGRAMMING
Best: Solidity · Python · BASH · C ·
Java
Average: Web (HTML / CSS /
Javascript + Django) · Linux Kernel
Programming
Familiar: Assembly · CUDA

INTERESTS

Block Chain technologies
worked with Bitcoin, Ripple and Ethereum
Practical Cryptography
Worked with factorization, pairing based
cryptography and erasure codes
Theoretical Cryptography
Multi-Party Computation
Information theoretic Cryptography
Others
Quantum Information Theory

RESEARCH

R C BOSE CENTER FOR CRYPTOLOGY AND SECURITY
| Undergraduate Research Fellow
July 2017 – Dec 2017 | Indian Statistical Institute, Kolkata
Worked with Dr. Sushmitha Ruj to build a publicly verifiable cloud storage using the ethereum framework. The work is currently being drafted for submission in a journal.

INFORMATICS AND SECURITY LAB | **Summer Research Fellow**
May 2016 - July 2016 | Indian Institute of Science, Bangalore, India
Worked with Prof. C E Veni Madhavan to analyze, design, develop and optimize a multi stage factoring framework to factor the numbers generated by GGNFS in the sieving phase.

PROFESSIONAL EXPERIENCE

MORGAN STANLEY | **Software Analyst Intern**
May 2017 – July 2017 | Bangalore, India
  * Developed an ElasticSearch framework alongside a levelDB setup to analyze and visualize the levelDB cache

PROJECTS

2017	Cloud Data Storage using Ethereum Framework
2017	K-Rack: A lightweight metadata encrypted steganographic filesystem
2017	Smart Device Ecosystem using a Smart Mirror
2016	Daedalus: A tool implementing the attacks on RSA as proposed in Dan Boneh's survey paper *20 years of attacks on RSA*
2015	A modified implementation of SHA2

SIGNIFICANT EVENTS

2018	Attended Information Theoretic Cryptography Workshop organized by IACR in IISc, Bangalore.
2017	Attended INDOCRYPT 17
2017	Attended Blockchain workshop held at ISI Kolkata
2017	Secured research internship as security researcher at R.C Bose Center for cryptology and security, ISI Kolkata
2017	Head of CompSoc [Computer Society], IEEE NITK student branch
2016	Awarded Indian Academy of Sciences Summer Research Fellowship

TALKS AND SEMINARS

2017	IEEE Summer Projects - Cloud Computing using Hypervisors
2016	GRUB Boot loader
2015	IEEE Winter Mentorship - Hashing
2015	Network Security (Web Servers, Ports and Remote Shell Hijacking by exploiting vulnerabilities)