

Adithya Bhat

EDUCATION

PURDUE UNIVERSITY

PHD IN COMPUTER SCIENCE |

2018-CURRENT

GPA: 4.0/4.0

Advisor: Aniket Kate

NIT SURATHKAL | INDIA

B.TECH IN INFORMATION

TECHNOLOGY | 2014-2018

GPA: 9.49/10.0 | Rank #3/101

COURSES

Cryptography - CS580: *A*

Practical and Applied Cryptography - CS590: *A*

Complexity Theory - CS584: *A+*

INTERESTS

Distributed Systems

Fault Tolerant Networks, Secure Protocol

Block Chains

worked with Ethereum, Bitcoin and Ripple

Applied Cryptography

Multi-Party Computation

SKILLS

Programming Languages

C, Python, Java, C++, NodeJS

Misc

BASH, Git

CONTACT

LinkedIn

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Github

github.com/adithyabhatkajake

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bhat24@purdue.edu

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+1 765-476-3319

EXPERIENCE

PURDUE UNIVERSITY

GRADUATE RESEARCH ASSISTANT

Fall 18 - Current, under Prof. Aniket Kate

R C BOSE CENTER FOR CRYPTOLOGY AND SECURITY

UNDERGRADUATE RESEARCH FELLOW

July 2017 - Dec 2017 | Indian Statistical Institute, Kolkata

MORGAN STANLEY

SOFTWARE ANALYST INTERN

May 2017 - July 2017 | Bangalore, India

INFORMATICS AND SECURITY LAB

SUMMER RESEARCH FELLOW

May 2016 - July 2016 | Indian Institute of Science, Bangalore, India

PUBLICATIONS

- 2019 Transitive Network: Tokenless IOU based Credit Network
Adithya Bhat, Pedro Moreno Sanchez, Aniket Kate
CIW, Financial Cryptography 2019, <https://transitive.network>
- 2019 *Reparo*: Publicly Verifiable layer to repair any blockchain
Sri Aravinda Krishnan Thyagarajan, **Adithya Bhat**, Bernardo Magri,
Aniket Kate
Under Review
- 2019 *E2C*: Energy Efficient Byzantine Agreement in the CPS setting
Ongoing

PROJECTS

- 2019 Analysis of the Ripple ledger data and transactions
- 2018 Publicly Verifiable Data Storage using Ethereum and proof of storage
- 2017 Analysis of Paging and Caching overheads in the Linux Kernel
- 2017 *K-Rack*: A lightweight metadata encrypted steganographic filesystem
- 2017 Designing and building a Smart Mirror and its interface
- 2017 *Kompile*: A secure light-weight online code judge using modified runtimes in a chroot jail
- 2017 Deep4MalDroid: Android Malware detection using system call graphs, Genetic Algorithm for parameter selection and Naive Bayes for Detection
- 2017 Fast Fourier Transform: A comparative analysis using GPU and CPU
- 2017 *Pikcha*: A CAPTCHA generating tool
- 2016 Analysis of factoring algorithms to optimize sieving in GGNFS
- 2016 *Air Hockey*: An augmented reality based multiplayer air hockey game by using real objects to track the mallet.
- 2016 *Daedalus*: A tool implementing the attacks on RSA as proposed in Dan Boneh's survey paper *20 years of attacks on RSA*