

# ANASUYA ACHARYA

## Masters Student Interested in Cryptography

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## EXPERIENCE

### Research Assistant

#### Information Security Research and Development Center(ISRDC)

July 2017 – July 2020    Mumbai, India

A three year scholarship student and Research Assistant in ISRDC, IITB.

### IT Intern

#### Atreus Global

May – June 2016    Jakarta, Indonesia

Back end Java developer involved in SAP installation, integration and technical documentation.

### Research Intern

#### Indian Statistical Institute

December 2015 – January 2016    Kolkata, India

Research intern in cryptography under Prof. Shubhamoy Maitra and involved in the study and attempted cryptanalysis of the RC4 stream cipher.

### Systems Engineering Intern

#### P.T. Yokogawa Indonesia

May – June 2015    Jakarta, Indonesia

Involved in installation project of DCS (Distributed Control Systems) in industrial production plants.

### IT Intern

#### P.T. Indorama Synthetics

December 2014 – January 2015    Purwakarta, Indonesia

Developer, tester and debugger for PHP based applications, and performed data analysis using Oracle BI.

## EDUCATION

### M.Tech. in Computer Science and Engineering (CSE)

#### IIT Bombay

July 2020    Mumbai, India

CGPA: 9.54

### B.Tech. in CSE

#### NIT Trichy

May 2017    Tiruchirappalli, India

CGPA: 8.06

### IBDP

#### Gandhi Memorial International School

May 2013    Jakarta, Indonesia

Score: 37 / 45

### BSEISI

#### Gandhi Memorial International School

March 2013    Jakarta, Indonesia

Score: 93.2%

### ICSE

#### Rama International School

March 2011    Purwakarta, Indonesia

Score: 93%

## MOST PROUD OF



### GATE (Graduate Aptitude Test for Engineering)

Score of 791 and AIR (All India Rank) 231 in the GATE Computer Science and Information Technology paper in February 2017



### AP (Advanced Placement Exam)

Scored 3/5 in Physics C Mechanics, Computer Science A, Calculus AB in May 2012



### AAT (National Award of Academic Aptitude and Achievement Test)

Scored 99 percentile in quantitative aptitude in May 2007

# PUBLICATIONS

## Conference Proceedings

- Acharya, Anasuya, Manoj M. Prabhakaran, and Akash Trehan (2019). "CellTree: A new Paradigm for Distributed Data Repositories". In: *IACR Cryptology ePrint Archive 2019*. IACR.
- Prabhakaran, Manoj M., Anasuya Acharya, and Akash Trehan (2019). "An Introduction to the CellTree Paradigm". In: *15th International Conference on Information Systems Security (ICISS 2019), Volume 11952 LNCS, 16-20 December 2019*. Hyderabad, India: Springer.
- Sanyashi, Tikaram, Anasuya Acharya, and Bernard Menezes (2019). "Plaintext Recovery Attacks and their Mitigation in an Application Specific SHE Scheme". In: *20th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2019), 5-7 December 2019*. Gold Coast, Australia: IEEE Xplore.
- Patil, Vishwas, Anasuya Acharya, and R. K. Shyamasundar (2018). "Landcoin: A Land Management System using Litecoin Blockchain Protocol". In: *3rd Symposium on Distributed Ledger Technologies (SDLT3) 2018, 12 November 2018*. Gold Coast, Australia.

## Workshops, Projects and Talks

- Acharya, Anasuya (2019). *Landcoin - A Land Management Protocol*. Third Workshop on Blockchain Technologies, its Applications (BW3) 2019, 4-7 February 2019, IIT Bombay, and IDRBT Hyderabad, India.
- Anasuya, Acharya (2019). *CellTree: A new Paradigm for Distributed Data Repositories*. Talk, 28 June 2019, IIT Bombay, Mumbai, India.
- Acharya, Anasuya, Digvijaysingh Gour, et al. (2018). *Fair Multi-Party Computation using Public Bulletin Boards*. Course Project, January - April 2018, IIT Bombay, Mumbai, India.

# REFEREES

Dr. Manoj M. Prabhakaran  
IIT Bombay

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Masters Thesis Supervisor

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Dr. Bernard L. Menezes  
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IIT Bombay

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# STRENGTHS

My Amazing Parents  
Alakananda and Koustav Acharya

Hard-working Creative Proactive  
Eclectic Interests

# LANGUAGES

English Hindi Bengali Japanese Mandarin Bahasa Indonesia

# SOFTWARE SKILL SET

Java C C++ SEBOL JavaScript  
Python PHP MATLAB  
HTML5 XML CSS3 SQL JDBC  
PostgreSQL  
CUDA C Code Ignitor PHP  
Spring Boot Java Python Django  
Android and firefoxOS App Dev  
Cisco Packet Tracer Adobe CS6

# EXTRA-CURRICULAR CERTIFICATIONS

JLPT N2 HSK 3 TEFL BMC @ HMI

# HOBBIES

Writing Reading Visual Arts  
Trekking Swimming Yoga  
Language Learning Crash Coursing  
Tae Kwon Do Crocheting  
Bharatanatyam dance Tutoring