

Prashant Anantharaman

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Education

Master of Science in Computer Science – August 2015 – June 2017

Dartmouth College, NH, USA.

Research Area: Systems Security

Advisors: Dr. Sean W. Smith and Dr. Sergey Bratus

Bachelor of Engineering in Computer Science and Engineering – August 2011 – May 2015.

College of Engineering Guindy, Chennai, India

Research Area: Compilers and Systems

Thesis: Code Compaction in LLVM IR.

TCS Best Senior Thesis Award.

Thesis Advisor: Dr. Arul Siromoney

Experience

SRI International, Menlo Park, CA, USA – Internet-of-Things Security and Privacy Center

Student Associate. Advisors: Dr. Michael Locasto, Dr. Gabriela Ciocarlie, Dr. Ulf Lindqvist.

Worked on an independent project to build *Language-theoretic security* compliant clients for application layer Internet-of-Things protocols.

Samsung R&D Institute, Bangalore, India – Intelligent Search Team

Student Trainee. Advisor: Mohan Sundar B.

Worked on an independent project of designing a graph searching system using Neo4J and Apache Giraph.

Publications

Preprints

P. Anantharaman, M. Locasto, G. Ciocarlie, U. Lindqvist.

"Building hardened Internet-of-Things implementations using Language-theoretic Security"

IEEE Symposium on Security and Privacy – Language-theoretic Security Workshop.

May 2017 (Submitted)

Conferences and Workshops

2. **P. Anantharaman**, K. Palani, D. Nicol, S.W. Smith.

"I am Joe's Fridge: Scalable Identity in the Internet of Things"

IEEE International Conference on Internet of Things.

December 2016.

1. G. Ramakrishnan, **P. Anantharaman**, and S. Mukherjee.

"Proactive Resource Provisioning Model for Cloud Federation."

International Conference on Distributed Computing and Internet Technology. Springer International Publishing,

January 2016.

Posters

3. **P. Anantharaman**, J. P. Brady, S. Bratus, I. R. Jenkins, M. Millian, D.M. Nicol, K. Palani, E. Reed, S.W. Smith
 "Increasing Cyber-Resilience of Large-Scale and Long-Lived Energy Delivery Infrastructure (EDI)"
 2nd CREDC Industry Workshop ,Tempe, AZ
 March 2017
2. **P. Anantharaman**, D.M. Nicol, K. Palani, E. Reed, S. W. Smith
 "Scalable Identity in the Smart Grid"
 2nd CREDC Industry Workshop ,Tempe, AZ
 March 2017
1. K. Palaki, **P. Anantharaman**, D.M. Nicol, S. W. Smith
 "Namespace and Cryptographic Complexities in the Smart Grid"
 1st CREDC Industry Workshop ,Champaign, IL
 March 2016

Teaching Experience

Teaching Assistant for *Programming Languages (COSC 59)*, September 2016– November 2016.
 Fall 2016 (1 lecture). Instructor – Dr. Sergey Bratus.
Ruby on Rails Instructor at FSFTN Summer Camp, June 2015.
 Number of Participants: 120.
 Venue: IIT Madras.

Talks and Presentations

Building vertically hardened Industrial-Control-Systems applications using Language-theoretic security
 2nd CREDC Industrial Workshop
 Tempe, AZ
 March 28th 2017.
Scalability Identity in the Internet of Things
 IEEE International Conference on Internet of Things
 Chengdu, China
 December 18th 2016.

Selected Fellowships and Awards

50% fee scholarship for first year of masters at Dartmouth College.
 TCS Award for Best Senior Thesis – 2015