

Sumanta Bose

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EDUCATION

Nanyang Technological University (NTU), Singapore

Electrical & Electronic Engineering
Doctor of Philosophy (Ph.D.)
Cumulative GPA: 4.63/5.00
2013 – 2017

National Institute of Technology (NIT), Trichy, India

Electronics & Communication Engg.
Bachelor of Technology (B.Tech)
Cumulative GPA: 8.36/10.00
2009 – 2013

SKILLS

Programming:

Go, C++, Python, JavaScript

Platforms:

MATLAB, R, NodeJS

Blockchain:

Hyperledger, Ethereum, Corda

Hardware:

Arduino, Raspberry Pi, FPGAs

AWARDS

NTU Research Scholarship
IEEE Region-10 YP Affinity Award
Univ. Grant Commission Fellowship
Student Travel Grant at PIERS'12

ACTIVITIES

TEDxNTU

IEEE Young Professionals

NTU Graduate Student Council

CITATIONS

Citations: 158

h-index: 7 | i10-index: 5

07.26.2018

WORK EXPERIENCE

Nanyang Technological University

Senior Research Engineer

Nov 2017 – Ongoing

Singapore, Singapore

- 'Cybersecurity Protocol and Mechanism for e-Logistics of Dangerous Goods Tracking Using Blockchain' funded by a ~\$1 million National Research Foundation (NRF) Singapore grant.
- I work on full-stack distributed ledger technology systems, with specialization in blockchain.

RESEARCH EXPERIENCE

KdotP Soft., (NTU)

Software Engineering Intern

Aug 2016 – Jan 2017

Singapore, Singapore

- Worked on the simulation engine, database creation and development of a GUI for KdotP Soft, a scientific software for semiconductor physics and device physics simulation.

Indian Institute of Science

Research Intern, Microwave R&D Lab

May 2012 – Oct 2012

Bangalore, India

- Worked on delay engineering using cascaded microwave all-pass filters for acoustic imaging by chirp waveforms for application in transmission lines acting as dispersive structures.

RECENT PROJECTS

Secure Geo-location enabled e-Logistics using Blockchain

A software-as-a-service to maintain, retrieve and search location enabled supply chain transaction records, that are securely logged in into a distributed blockchain ledger.

IC Manufacturing and Supply Chain Management

A blockchain protocol for securely authenticating IC transactions in IC manufacturing and supply chains.

RECENT PUBLICATIONS

1. "BLIC: A Blockchain Protocol for IC Manufacturing and Supply Chain Management", IEEE International Conference on Blockchain, Canada, 2018.
2. "BLAV: Blockchain Protocol for Tamper-resilient and Secure Data Aggregation in Autonomous Vehicles", IEEE Asia Pacific Conference on Circuits and Systems, China, 2018.