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: 161
h-index: 7 | i10-index: 5

09.16.2018

WORK EXPERIENCE

Nanyang Technological University   Nov 2017 – Ongoing
Senior Research Engineer   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)   Aug 2016 – Jan 2017
Software Engineering Intern   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   May 2012 – Oct 2012
Research Intern, Microwave R&D Lab   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. "Secure and Tamper-resilient Distributed Ledger for Data Aggregation in Autonomous Vehicles", IEEE Asia Pacific Conference on Circuits and Systems, China, 2018.

2. "BLIC: A Blockchain Protocol for IC Manufacturing and Supply Chain Management", IEEE International Conference on Blockchain, Canada, 2018.