

# Sandipan Das (Communication and Security, MSc)



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## Work Experience >>

### SIKOM Connect | Framework Developer | June – Aug, 2015

Trondheim (*Summer Internship*)

- Working on framework for IOT in the home automation segment
- Make connection pool platform for connecting varied devices

### NTNU TTO | R&D Programmer | Oct, 2014 – Mar, 2015

DIGS, Olav Tryggvasons Gate 30, Trondheim – 7050 (*Part Time*)

- Working on research solutions for new network analyzer tools and n/w latency optimization solutions along with secure communication
- Developing VPN client for limiting network latency and traffic routing

### Ericsson | Senior Solution Integrator | Aug, 2011 – Aug, 2014

DLF IT Park – II, Rajarhat, Kolkata – 700156 (*Full Time*)

- Created customized data loading and analysis middleware
- Developed cross-platform and native mobile applications
- Worked on enterprise web applications to communicate with telecommunication systems in real time remotely
- Worked on chat, voice streaming and IPTV applications
- Experience with virtual private cloud manager

### PwC India Pvt Ltd. | Consultant | Aug, 2009 – July, 2011

Block DN-57, Sector-V, Kolkata – 700091 (*Full Time*)

- Developed various web applications and portals
- Developed data classification tool for analyzing data in real time
- Provided effective solutions to the client's requirements

## Awards and Achievements >>

2014 [NordSecMob consortium Scholarship](#) – For pursuing masters in Nordic countries (Norway and Sweden)

*European Commission, Erasmus Mundus Scholarship*

2012 **Extra Milers Award** – For Mobile World Congress, Barcelona

*Ericsson, India*

2011 **Star Performer Award** – For successful delivery of projects

*Ericsson, India*

2011 **JOLT Award** – This award acknowledges "out-of-ordinary" performance by teams or individuals and is given to any 4 teams/individuals in a year across the world

*Ericsson, India*

2005 **54<sup>th</sup>** in WBJEE (out of approx 80,000 students)

2004 **Merit-cum Means Scholarship**

*Govt. Of West Bengal, India*

## Education >>

2016 **MSC**, Communication and Security, ICT  
**KTH, Stockholm, Sweden**

2015 **MSC**, Communication and Security,  
Department of Telematics  
**NTNU, Trondheim, Norway**

2009 **BE**, Computer Science  
**Jadavpur University, Kolkata, WB, India**

## Courses Taking (KTH) >>

- RFID
- Green Gateway (Reduce gateway power consumption)
- Sensor based systems

## Courses Taken (NTNU) >>

- Software Security, Information Security
- Cryptography
- Software Architecture, Gaming Architecture
- Dependability and Performance With Discrete Event Simulation
- Real Time Distributed Systems
- Internet Architecture
- Mobile and Network Services

## Currently Learning about>>

- Linux Kernel hacking
- Radio communication technology
- Bio-sensors and smart RFID systems
- IOT and data credibility
- Digital Security

## Current Projects >>

### Smart Wearable biosensor Tag (KTH)

- Create own modulation on top of a RFID tag using a programmable microcontroller and transistor
- Add temp. and heart bit sensors to receive data

### Green gateway project (KTH)

- Hacking kernel and reduce power consumption
- Wake on packet arrival of IOT devices

## Volunteering Experience >>

- Volunteer in Trondheim developer conference, 2014
- Took part in social work activities in school

## IT expertise portfolio >>

**Cross-Platform Mobile Apps development:** HTML5,

Phonegap(Cordova), JQuery mobile

**Enterprise Content Management Portal:** Liferay Portal 5.2.3

**Technology Stack:** JAVA, C#, Python, AJAX, HTML5, CSS, PHP(basic), C, Java Script, JQuery, SQL, Spring, Android, Hibernate, Node.js, Mule ESB

**RDBMS:** Oracle, MySQL

**Web/Application Server:** Tomcat 5.0 and higher, Sun java system application server 8.2 , Oracle OC4J Container, Weblogic Server, JBoss 4.2 and higher, Glassfish v1, Sailfin (Glassfish v2)

**Document Management Tool:** Alfresco (Open source ECM)

**Scientific Document Preparation Tool:** Latex

**Build Tool:** Ant 1.7.1

**Continuous Integration Tool:** Hudson, Team City

**Workflow engine:** OSWorkflow

**Caching Tool:** Ehcache

**Reporting Tool:** IReport(Jasper reports)

**Directory Server:** LDAP

**Pen Testing Tool:** KALI Linux

**IDE/Tools:** Net Beans 5.5 and above, Eclipse(Galileo), JDeveloper 11g, Toad 7.0 and higher versions (Oracle), Toad 4.0 and higher( My SQL), SQL Yog, IntelliJ Idea 9.0 and above, QT Creator, IReport 3.5

**Version Management Tool:** Microsoft VSS, SVN, Git

## Personal Points >>

**Professional:** Personable, Organized, Motivated

**Creative:** Observant, Open-Minded, Innovative

**Technical:** Resourceful, Adaptive, Efficient

**Hobby:** Playing Table Tennis, Playing Badminton, Cooking

**Gender:** Male

**Date of Birth:** 21<sup>st</sup> Oct, 1985

## Organizational Skills >>

- Previously, International Club of Trondheim, Board Member
- Team Lead in projects in past work experiences
- Placement coordinator in college

## Previous Projects >>

**Network Packet Loss Tool** (NTNU Technology Transfer AS)

- Server side network packet loss analysis
- VPN client for limiting network latency

**Developing Android Multiplayer Game** (NTNU)

- Use Unity 3D to develop android multiplayer game

**Real Time video Streaming with RFID verify** (NTNU)

- Developing video streaming and display in browser
- Using Raspberry PI and camera modules

**Simulation of MVNO in Lab Environment** (NTNU)

- Analyze performance of MVNO using Simula

**Web Application Penetration Testing** (NTNU)

- Pen-testing and vulnerability testing using KALI
- RMF and OWASP mechanisms

**Creating LAN and VPN in Lab Environment** (NTNU)

- Simulate and create the routing tables (Used OSPF and BGP)

**Customized data loading ETL Tool** (Ericsson, India)

- Create customized data load tool from diff sources

**Purchase Limits mobile application** (Ericsson, India)

- Develop app for controlling purchasing limit

**Cross-platform business communication suite for real time chat and video applications** (Ericsson, India)

- Audio and video chat application

**National Stock Exchange Data Classification Tool** (PwC, India)

- Classify data on real time and add weight accordingly

**Sales operation and chain management system** (PwC, India)

- Developed a sales chain based commission system

**Media management using document management system** (PwC, India)

- Digitize and storing of past newspapers using OCR

**E-Card Sending app** (PwC, India)

- Send automated e-cards
- Create personalized e-cards