



SANDIPAN DAS

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⚙ Skills

Professional Skills

PROGRAMMING

JAVA/J2EE	★★★★★
C#	★★★★★
C	★★★★☆
Python	★★★★☆
Node.js	★★★☆☆
Jquery	★★★★★
HTML5	★★★★★
Android	★★★★☆
SQL	★★★★★

SIMULATION

CST EM studio	★★★★☆
MATLAB	★★★☆☆

HARDWARE

PCB design	★★★★☆
Audrino, RPi	★★★★★

OTHERS

MS Office	★★★★★
LATEX	★★★★★
InDesign	★★★☆☆
Illustrator	★★★☆☆

Personal Skills

Team Player, Proactive, Organized, Management skills, Adaptive, Interpersonal skills

🏆 Awards

[NordSecmob](#) scholarship
EUROPEAN COMMISSION 2014

Extra Milers - for MWC
ERICSSON, INDIA 2012

JOLT Award - for cross platform applications
ERICSSON, INDIA 2011

🎓 Education

2015 - 2016
EXPECTED IN JUNE

Master's Degree in Communication and Security
KTH ROYAL INSTITUTE OF TECHNOLOGY, SWEDEN

2014 - 2015

Master's Degree in Communication and Security
NTNU, NORWAY

2005 - 2009

Bachelor's Degree in Computer Science & Engineering
JADAVPUR UNIVERSITY, INDIA

💼 Work Experience

06/15 - 08/16

[Sikom Connect](#) | **Embedded Software Engineer Intern**
OTTO NIELSENS VEG 12, TRONDHEIM, NORWAY

- Sikom Connect makes products for home automation
- Created secure connection pool platform ensuring 99% uptime and enhancing performance
- Ensured loose coupling in framework for integration

10/14 - 03/15

[NTNU TTO](#) | **R&D Programming Assistant, Part time**
DIGS, OLAV TRYGGVASON'S GATE 30, TRONDHEIM, NORWAY

- Developed mechanism for server side packet loss check
- Worked on a tool for monitoring packet loss in network
- Created a VPN client for efficient traffic routing

08/11 - 08/14

[Ericsson India](#) | **Senior Software Engineer**
DLF IT PARK - II, RAJARHAT, KOLKATA, INDIA - 700156

- Architected customized BI tool for service management
- Worked on cross platform and native mobile apps
- Created VOIP client with 3rd party SIP services

08/09 - 08/11

[PwC India Pvt Ltd.](#) | **Full Stack Web Developer**
BLOCK DN - 57, SECTOR - V, KOLKATA, INDIA - 700091

- Created web applications and portals
- Worked on process automation and improvement
- Client interaction and proposal drafting

👥 Volunteering Experience

2014

Trondheim Developer conference, Norway

2015

Internetdagarna, Sweden



Projects During Studies

- 08/15 - 01/16 **Designing low power gateways for Wireless Sensor Networks | KTH**
- Measured power consumption for various platforms viz. Rpi, Odroid, Beaglebone, OpenWRT
 - Devised radio duty cycling use cases on gateways for low idle power consumption
 - Removed unnecessary components consuming bus power
- 10/15 - 01/16 **Advanced vehicle detection clothing for cyclists using sensors | KTH**
- Used ultrasonic sensor, gyro sensor and accelerometer for system characterization
 - Characterization of sensors using ADC
 - Integrated product using a low power MSP 430 microcontroller
- 08/15 - 10/15 **Customized RFID tag with biosensor integration for advanced security | KTH**
- Developed customized RFID transmitter system with LC circuit and FSM
 - Created modulation scheme for transferring data from the RFID transmitter to receiver
 - Integrated an IR based heartbeat monitor to initiate the system for enhanced security
- 01/15 - 06/15 **Real time video streaming with RFID verification | NTNU**
- Created video streaming system using remote Rpi camera viewable on standard browser
 - Used motion JPEG-streamer protocol for streaming
 - Integrated product with RFID reader for initiating system with access control
- 01/15 - 06/15 **Customized server certificate for web application | NTNU**
- Created customized certificate from a Certificate Authority using a chain of trust
 - Distribute key exchange mechanism using Diffie-Hellman algorithm
- 01/15 - 06/15 **Multiplayer android game | NTNU**
- Developed a multiplayer [Android puzzle game](#) from scratch using Unity-3D
 - Designed database based on key-value pair with indexing for fast access
 - Used REST APIs to interact with server side
- 08/14 - 01/15 **Web application penetration testing using KALI Linux | NTNU**
- Used KALI Linux for finding out vulnerabilities in an application
 - Created a risk mitigation framework for managing the vulnerabilities using OWASP
- 08/14 - 10/15 **Simulation of Mobile Virtual Network Operator for QoS parameters | NTNU**
- Used MATLAB to simulate the MVNO environment
 - Checked the QoS parameters using the queueing length of the nodes along with latency
- 08/14 - 10/15 **Created a LAN and VPN in lab environment | NTNU**
- Simulate and create network environment using NS3
 - Created routing tables using OSPF and BGP protocols



References

On request

I hereby declare that all the information provided here are true to the best of my knowledge.

Sandipan Das