Ankit Deepak

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EDUCATION

NITK SURATHKAL
BTech in Computer Science
Expected May 2017
CGPA after V sem: 9.14 / 10

CHINMAYA VIDYALAYA
Grad. May 2013 | Bokaro, India

ST FRANCIS SCHOOL
Grad. May 2011 | Deoghar, India

LINKS

Github:// **adeepkit01**
LinkedIn:// **ankit-deepak**

COURSEWORK

UNDERGRADUATE
Data Structures and Algorithms
Design and Analysis of Algorithms
Operating Systems
Distributed Computing Systems
Computer Networks
Computer Architecture
Compiler Design
Advanced Computer Networks
Advanced Data Structures
Internet Technologies and Applications

SKILLS

PROGRAMMING
Fluent
Java • C • C++ • Python •
Django • NS3 • LaTeX • Git
Familiar:
Ruby • HTML • CSS • MySQL
• Android • Shell • C# • Julia
• Mercurial

ACTIVITIES

Campus Ambassador GeeksForGeeks
Convenor of Web Enthusiast's club NITK
Executive Member of IE NITK
NTSE Scholar

EXPERIENCE

MOOG FLIGHT CONTROL |Summer Intern
June 2015 | Bangalore, India
- Build an embedded system for flight controls on a Jetson Tegra TK1 chip utilising all the cores efficiently

CONCAT | Summer Intern
May- July 2015 | Work From Home
- Built API for this Django based website and optimised the search

PUBLICATION

PARALLEL DYNAMIC APPROACH FOR DATA ANALYSIS
Publication on data analysis and pattern recognition accepted by ICRCICN 2015, Kolkata and published in IEEE Explore

USING GENETIC ALGORITHM FOR PROCESS MIGRATION IN MULTICORE KERNEL
Publication on multicore operating systems presented at COMNET 2016, Ahmedabad

IPV6 SUPPORT FOR OLSR
Short paper on implementation of OLSR routing algorithm for IPv6 addresses in NS3 accepted in WNS3 2016, Seattle, Washington

PROJECTS

NS-3 CONTRIBUTIONS
Support for DHCP in latest versions of NS3
Support for IPv6 Addressing in existing OLSR and DSDV modules of NS3
Support for Python 3 for NS-3 integration tool, Bake
Support for Python 3 for NS-3 utilities

SECURE RANDOM NUMBER GENERATION | Uses Surrounding noise for Entropy
Uses surrounding sound, light, network congestion as source of randomness to generate random numbers.
Modified to collect entropy from noise of data collected in sensors for secure key generation in cloud based smart city environment.

IMAGE PROCESSING FOR DIAGNOSIS OF EYE DISEASES
The project extracted colour based features of the eye and used boosted classification to classify the eye into different diseases with a 95% accuracy

VISUAL CRYPTOGRAPHY | Generating Shares to Hide and Image
Uses pixel expansion and block replacement to achieve encryption.