Amit Panghal

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EDUCATION

NEW YORK UNIVERSITY
MS in Computer Science
Courant Institute of Mathematical Sciences
Expected May 2019 | NYC, NY

IIT BOMBAY
B.Tech in Computer Science
Honours with Thesis
2010-2014 | Mumbai, India

LINKS

LinkedIn:// **panghalamit**

COURSEWORK

GRADUATE
Big Data and ML Systems
Big Data Science
Intro to Cryptography
Fundamental Algorithms

UNDERGRADUATE
Foundations of Machine Learning
Mobile Computing
Performance Analysis of Systems and Networks
Database and Information Systems
Computer Networks
Operating Systems + Practicum
Artificial Intelligence + Practicum
Functional and Logic Programming
Compilers + Practicum
Data Analysis and Intepretation
Design and Analysis of Algorithms

SKILLS

PROGRAMMING
Over 5000 lines:
C++ • Java • C • Android
Over 1000 lines:
Python • Matlab • Assembly • Lisp • R • PHP
Familiar:
AS3 • MySQL • CSS • Latex • Javascript

EXPERIENCE

SAMSUNG RESEARCH INDIA | Senior Software engineer
July 2014 – July 2017 | Bangalore, India
- Worked with Communication Research Team in primarily Android and C to design and develop framework for Data Traffic Manager to piggyback background data with foreground traffic.
- Modeled power usage of CPU in Android in R using quadratic programming and enhanced the per component per power usage statistcs in Android.
- Formulated and Developed the mechanism to accurately estimate time to transmit for files in Smartphone. Proposal was runner up in Samsung's Creative Lab Compettion. Patent has been filed in India, South Korea and US for the same. The work on Transmission Time Estimator was presented at IEEE WCNC 2017.

RISE AB | Student Reseacher
May 2013 – Jul 2013 | Stockholm, Sweden
- Designed and Impelemented Data Transfer Protocol for Sensor nodes as part of Structural Health Monitoring project. The protocol was implemented in C on Contiki operating system and was tested succesfully at KTH.

RESEARCH

SYNERG LAB, IIT BOMBAY | Undergraduate Thesis
Aug 2013 – July 2014 | Mumbai, India
Worked with Prof. Bhaskaran Raman on Communication Assisted Road Transportation System Project, explored gps duty cycling techniques and made an android application to leverage inaudible audio frequency to send/receive data.

PANDA GROUP, IIT BOMBAY | Undergraduate Researcher
Aug 2013 - Dec 2013 | Mumbai, India
Worked with Aman Mangal and Prof. Varsha Apte, and developed simulator for Dynamic Server Consolidation Problem in virtual clusters formulated as Markov Decision Process.

MINI PROJECTS

Year	Type	Description
2017	Coursework	Time Series Analysis of NYC MTA Data in Spark
2017	Coursework	Classification of News Articles in Spark
2014	Coursework	Herobot, Hand gesture remote control of robotic arm
2013	Coursework	Cfglp compiler, compiler of control flow graph produced by c
2012	Yahoo Hackathon	Group Expense Manager, android application
2011	Coursework	Checkers, popular game developed in Lisp

AWARDS

Year	Type	Description
2010	Bronze Medal	42nd International Chemistry Olympiad
2010	Top 1%	Indian National Standard Examination in Physics
2011	National	Narotam Sexaria Scholarship for Engineering Students
2014	College	IITB Heritage Fund Scholarship
2015	Samsung	Runner Up in Creative-Lab compettion