Ashish Gupta

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EDUCATION

PUNE UNIVERSITY
BE in Information Technology
Graduated May 2015 | Pune, IN
Pune Institute of Computer Technology

HANDLES

Github - **ashmew2**
Freenode IRC - **ashmew2**
CodeForces - **ashmew2**
Linkedin - **ashmew2**
Ubuntu Forums - **ashmew2**
KolibriOS Forums - **ashmew2**
CodeChef - **ashmew2**

COURSEWORK

UNDERGRADUATE
Algorithms and Data Structures
System Design
Advanced Operating Systems
Compiler Design
Advanced Computer Networks
Computer Networks and Technology
Distributed Systems

SKILLS

PROGRAMMING
C • C++ • Python • Emacs Lisp
BASH • i386 Assembly
Click Modular Router • GNU Make

TECHNOLOGY / TOOLS
Capistrano • Wireshark • GNU / Linux
Git • SVN • Mercurial • Emacs
IRC • Jenkins

INTERESTS
Free and Open Source Software
GNU / Linux
Problem Solving
Functional Programming
Protocol Design
Physics
Game development

EXPERIENCE

RAKUTEN INC | Oct 2015- Present
Tokyo, Japan
- Core API Development
- Automation with Ruby, Shell and Python
- System Design and troubleshooting

WIRELESS MESH NETWORKS | DEC 2014 - MAR 2015
Improving bandwidth utilization in 802.11s Linux WMN
- Packet routing in userspace using Click Modular Router.
- Multiple internet gateways for routing traffic for increased throughput.
- Higher resilience of networks as more points of connectivity can be found.
- Demonstrated with experimental data that linear gains are possible.

KOLIBRI OS | Ongoing
A tiny OS Written in x86 Assembly
- Started official Netsurf Web Browser port for KolibriOS.
- Implemented a C <=> Assembly layer for using libraries.
- Developing a Cross Compiler for i586-unknown-kolibrios GNU Triplet Toolchain.
- Wrote a GUI library in C which interfaces with Kolibri Kernel (in assembly).
- Mentor for Google Summer of Code 2016.

PIDGIN INSTANT MESSENGER | May 2013 – Sep 2013
Improve File Transfer Support in Pidgin
- Reverse engineered the libjingle protocol used by Google Talk for file transfers.
- Implemented the reversed libjingle into into Pidgin's Google Protocol plugin.
- Documented the working of the libjingle protocol on the IM Freedom wiki.

THE CLASH MCQ SYSTEM | Jul 2012 – Sep 2012
A System for hosting intercollege programming competitions
- Created for the PICT IEEE Student Branch.
- This system replaced paper questionnaires with digital copies.
- Contest hosted over a LAN with a PyQt interface.
- Designed several question sets of algorithmic and ad-hoc problems.

ACHIEVEMENTS

ACM ICPC | Asia Regionals
International Collegiate Programming Challenge.
December 2012 | IIT Kanpur | Rank 54
December 2013 | ASE Bangalore| Rank 110
December 2013 | IIT Kanpur | Rank 36.

GOOGLE SUMMER OF CODE | GSOC
Student in 2013 for Pidgin
Student in 2014 for KolibriOS
Mentor in 2016 with KolibriOS