

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

Discrete Structures

Advanced Operating Systems

Compiler Design

Advanced Computer Networks

Distributed Systems

SKILLS

PROGRAMMING

C • C++ • Python • Emacs Lisp

BASH • i386 Assembly

Click Modular Router • GNU Make

TECHNOLOGY / TOOLS

Emacs • Git • SVN • Wireshark

GNU / Linux • Mercurial • IRC •

INTERESTS

Free and Open Source Software
GNU / Linux

Problem Solving

Distributed Systems

Operating Systems and Kernels
Networks

Multiplayer Gaming

Protocol Design

Physics

Mathematics

EXPERIENCE

OPTIVER | Nov 2016 - PRESENT

Amsterdam, Netherlands

- Engineer in Core Systems

RAKUTEN INC | Oct 2015 - Oct 2016

Tokyo, Japan

- Core API Developer for Rakuten Super Point
- end-to-end pipelines with Ruby, Shell and Python

OPEN SOURCE CONTRIBUTIONS

WIRELESS MESH NETWORKS | DEC 2014 - MAR 2015

Bandwidth utilization in Wireless Mesh Networks

- Use multiple internet connections simultaneously for increased throughput.
- Load balancing in Userspace using Click Modular Router for linear gains.
- Radio Physics, ARP, Reverse Proxies, DHCP, L2 and L3 networking.

KOLIBRI OS | ONGOING

Developer and Mentor

- Author/Maintainer of Netsurf Web browser for KolibriOS.
- Developed a C to Assembly Interface for using assembly libraries in C.
- Developing a Cross Compiler based on GCC and GNU binutils with newlib port.
- Contributions to TCP network stack, HTTP library
- Mentor for GSoC 2016 for developing a POSIX C layer and FTP client.
- C, assembly, opcode level debugging, newlib, toolchains, kernel

PIDGIN INSTANT MESSENGER | MAY 2013 - SEP 2013

Implement File Transfer for Google Talk in in Pidgin

- Reverse engineered the libjingle protocol used by Google Talk for file transfers.
- Implemented the reversed libjingle into Pidgin's Google Talk Protocol plugin.
- Documented the working of the libjingle protocol on the IM Freedom wiki.
- C, XMPP, Networking, Protocol design, libnice, NAT traversal.

THE CLASH MCQ SYSTEM | JUL 2012 - SEP 2012

A System for hosting intercollege programming competitions

- Why waste paper when you can avoid it?
- Python, Qt, Networking, Algorithms, Data Structures.

ACHIEVEMENTS

ACM ICPC | ASIA REGIONALS

International Collegiate Programming Challenge.

December 2012 | IIT Kanpur | All Asia Rank 54

December 2013 | ASE Bangalore | All Asia Rank 110

December 2013 | IIT Kanpur | All Asia Rank 36

GOOGLE SUMMER OF CODE | GSOC

Student in 2013 for Pidgin

Student in 2014 for KolibriOS

Mentor in 2016 for KolibriOS