Prashant Piprotar

FINAL YEAR POSTGRADUATE • COMPUTER SCIENCE & ENGINEERING

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Academic Qualifications

2019-Present	M.Tech(Computer Science & Engg.)	IIT Kanpur	8.6/10
2014-2018	B.Tech.(Computer Engineering)	CSPIT, CHARUSAT	9.04/10
2013-2014	XII (C.B.S.E.)	K.V. No.2, Jamnagar	81%
2011-2012	X (C.B.S.E.)	K.V. No.2, Jamnagar	10/10

Internship

Centre for Development of Advanced Computing, R & D | Under SDN Online Lab | *Jan' 18 - Apr' 18*
- SDN Online Lab is an open-source, online platform for developing software defined network (SDN) applications.
- The main components are Network Emulator and IDE, which supports full development lifecycle for SDN Applications.

Research Experience

Benchmarking HPC 2013 | M.Tech Thesis | Under Prof. Preeti Malakar | *May'20 - June 20*
- All the pre-tests were performed to measure the average throughput of the HPC.

Testing Hadoop, Hbase on HPC | M.Tech Thesis | Under Prof. Preeti Malakar | *July'20 - Ongoing*
- Testing existing converged models of Big Data Analytics and HPC tools to improve it for the current or upcoming HPC systems.

Course Projects

Cloud MPI | Under Prof. Preeti Malakar (CS698G) | github.com/prashplus/CloudMPI | *Jan'20- May 20*
- Developed a C++ support library to facilitate some additional functionalities to the existing MPI library.
- The Project aims to increase the performance of MPI library over the Public Cloud Environment.

Malware Detection using ML | Under Prof. Sandeep Shukla (CS698M) | *Feb'20- Mar' 20*
- Developed machine learning models for malware detection on the given static and dynamic analysis data sets of the programs.

DeCaptcha | Under Prof. Purushottam Kar (CS771A) | *Oct'20- Nov' 20*
- Extracting text from the captcha using image processing and Deep learning model.

Personal Projects

System S | github.com/prashplus/SystemS | *Sep'16 - Dec' 17*
- Project is focused on MSOs/LCOs who are looking for simple Subscriber Management System during this phase of Digitization.

Skills

Languages	*Experienced*: C++, Python. *Familiar*: Java, C#, Scala
Misc.	MPI, Docker, Git, Netsim

Research Interests

Cloud Computing	High Performance Computing	Computer Networks
Virtualization	Containerization	

Scholastic Achievements

- Secured **All India Rank 422** in **GATE 2019** among the 99932 candidates.
- "Certificate of Merit" from Central Board of Secondary Education(CBSE) for class X.

Certification / Training

- **Cisco Certified Network Associate**: Routing and Switching — *Jan'17- Dec' 17*
- **Mobile Communication** – BSNL RTTC Ahmedabad — *June 16*

Relevant Courses

Computer Systems Security	Parallel Computing	Introduction to ML
Malware Analysis	Designing Verifiably Secure Systems	