

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
- Mobile Communication** – BSNL RTTC Ahmedabad
- MTA**: Windows Server Administration Fundamentals - Certified 2017

Jan'17- Dec'17

June 16

Oct'17

Relevant Courses

Computer Systems Security

Parallel Computing

Introduction to ML

Malware Analysis and Intrusion

Designing Verifiably Secure Systems

Advance Topics in Algorithms & Data Structures

Detection