

# 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](https://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.
- Lang. / Library** : Python, scikit-learn **Model** : Random forest classification.

**DeCaptcha** | Under Prof. Purushottam Kar (CS771A)

Oct'20 - Nov'20

- Extracting text from the captcha using image processing and Deep learning model.
- Lang. / Library** : Python, CV2, Keras **Model** : CNN

**Secure File System** | Under Prof. Pramod Subramanyan (CS628A)

Aug'20 - Sep'20

- Designed and developed a secure file storing and sharing system. The implementation holds all the basic security properties.
- Lang. / Library** : Go

## Personal Projects

**System S** | [github.com/prashplus/SystemS](https://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

## 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

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Computer Systems Security  
Malware Analysis and Intrusion  
Detection

Parallel Computing  
Designing Verifiably Secure Systems

Introduction to ML  
Advance Topics in Algorithms & Data  
Structures

## Positions of Responsibility

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**Fundamentals of Computing | ESC101** | Teaching Assistant

*Aug'19-Nov'19*

- Major duties involved handling Labs and clearing doubts.

**Fundamentals of Computing | ESC101** | Teaching Assistant

*Jan'20-Mar'20*

- Major duties involved handling Labs and grading assignments and exams.

## Research Interests

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Cloud Computing  
Virtualization

High Performance Computing  
Containerization

Computer Networks

## Hobbies

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Hockey

Roller skating

PC gaming

## Extra-curricular Activities

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- Participated in workshop “Mobile Making” at MSU
- Participated in workshop “ONE 2016” at NIT, Karnataka.
- Attended Nvidia Developer Connect 2018 at Delhi.

*Feb' 15.*

*Jul' 16*

*Sep' 18*