

## EDUCATION

<b>New Brunswick, NJ</b>	<b>Rutgers University</b>	<b>Jan 2016-Dec 2017</b>
<ul style="list-style-type: none"><li>M.S. in Computer Science, <u>Research Area</u>: Distributed Systems and Cloud Computing. GPA: 3.4</li></ul>		
<b>Pune, India</b>	<b>University of Pune</b>	<b>Aug 2008-June 2012</b>
<ul style="list-style-type: none"><li>B.E. in Information Technology, <u>Research Area</u>: Distributed Systems. First Class with Distinction</li></ul>		

## LANGUAGES AND TECHNOLOGIES (YEARS)

- Python(4+), C(3+), Java(2+), Go(1); Virtualization- Libvirt(2+), LXC(2+), KVM(2+); Cloud- Kubernetes(1+), Docker(1+), DevOps(1+), Puppet(1+); Database-PostgreSQL(2+); Web-HTML(1+), Bootstrap(1+); Linux(7+); Web Services(1+); GitHub(4+); Agile(2+)

## EMPLOYMENT

<b>Cloud Software Engineer Intern</b>	<b>Intel Corporation</b>	<b>June 2017-Aug 2017</b>
<ul style="list-style-type: none"><li>Performed research on NVMe over Fabrics (NVMe-oF) as a scalable Cloud Storage solution</li><li>Developed a prototype on NVMe-oF with solid state drive to derive a scalable, low latency and high performing Cloud Storage solution in Intel Rack Scale Design™ data centers</li><li>Implemented 'conio'-a command-line tool for automated I/O benchmarking of Docker containers on NVMe volumes using Python. This tool is used by several teams for quick I/O benchmarking of containers</li><li>Implemented Intel Snap plugin using Go to extract NVMe-based cloud storage telemetry and monitor NVMe Over Fabrics using Docker containers orchestrated by Kubernetes</li></ul>		
<b>Software Engineer (R&amp;D)</b>	<b>NTT Data Americas</b>	<b>July 2012-Mar 2014</b>
<ul style="list-style-type: none"><li>Designed and implemented Central Logging System and 'Backup and Restore' System of GresCube™: a commercial distributed database service which guarantees minimal downtime and enhanced business continuity</li><li>Architected six times faster disaster recovery operations module using various file synchronization, archive and transfer utilities upon customer's demand after the Megaquake of Japan</li><li>Performed an extensive research on issues with virtualization overhead caused by LXC Containers, KVM and OpenVZ, whose outcome became the foundation of GresCube™</li><li>Analyzed and compared Advance Update feature of distributed databases using LXC Containers and HA services to test servers based on network package flow to allow updates with minimal downtime</li><li>Developed Puppet scripts to automate creation of web server components called PROSSIONE™</li></ul>		
<b>Part Time Lecturer</b>	<b>Rutgers University</b>	<b>Aug 2016-Dec 2017</b>
<ul style="list-style-type: none"><li>Constructed, implemented and executed an effective lesson plan for a diverse group of college students</li><li>Taught logic and thought building techniques for programming using Scratch and Python</li></ul>		

## TECHNICAL EXPERIENCE

### Projects

- POSIX Pthread Library** (2016)- Designed and developed an UNIX-style scheduler that contains implementations of primitive functions of original pthread library. Custom POSIX functions showcased a multi-level feedback queue scheduler which processed threads by providing them with immunity to Priority Inversion Problem using C.
- Topik: Top-k Data Search in Geo-tagged Social Media** (2016)- Fetched k most popular users in a location from a vast data pool of all possible Twitter users. Achieved performance improvement from  $O(n^2)$  to  $O(n \log n)$  using Non Random Access(NRA) indexing for big data using Python, Flask, MariaDB and Bootstrap
- Parallel Password Cracking using OpenMP** (2016)- Implemented a parallel password cracker using parallel programming tool OpenMP reducing time taken to crack a password from ~80 minutes to 27 sec using C.
- Multi-party Multi-issue Negotiation Model (R&D)** (2011-2012)- Innovated a module using principles of Game Theory to engage software agents in B2B/B2C e-commerce activities to provide an automated auctions feature using Java, JSF, JavaScript and Oracle. **Gold Medal, Best Student Project Award**

## PUBLICATIONS

- MAINWAVE**: Multi Agents and Issues Negotiation for Web using Alliance Virtual Engine; The Smart Computing Review Journal, Korea; Vol.2, No.5, October, 2012; pp.308-317; ISSN 2234-4624 (**DBLP**)
- HENRI**: High Efficiency Negotiation-based Robust Interface for Multi-party Multi-issue Negotiation over the Internet; CUBE 2012 International IT Conference, Pune, India; ACM Digital Library, USA; pp.647-652 (**DBLP**)

## AWARDS AND ACTIVITIES

- Department of Information Technology (Co-Head)**: Managed and lead a team of 8 students in Accolade, the national technical event of the department of my undergraduate school
- Multi-party Multi-issue Negotiation Model (Received Gold Medal for Best Student Project)**: Awarded by Tata Consultancy Services for my undergraduate research project, out of all the projects in all 14 departments of my school