

EMPLOYMENT

Site Reliability Engineer	Societe Generale	Feb 2018-Current
<ul style="list-style-type: none">Developed low-latency monitoring solutions to monitor a widely-distributed high frequency trading infrastructure using Python, Bash, and Elasticsearch, Logstash and Kibana; Achieved three times faster performance compared to legacy monitoring solutionsDesigned and contributed to set up Internal Stock Market- a distributed system to facilitate trading for the clients of the bank globallyImplemented Ansible Playbooks to automate frequent tasks and maintain uniform configuration across the infrastructure of ~1000 serversProvided active production support by resolving the issues at the application level, UNIX-level or network-level to ensure high availability and low-latency for users across the world		
Cloud Software Engineer Intern	Intel Corporation	June 2017-Aug 2017
<ul style="list-style-type: none">Researched on NVMe over Fabrics (NVMe-oF) with solid state drive to derive a scalable, low latency and high performing cloud storage solution in Intel Rack Scale Design™ data centersImplemented '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 containersDeveloped and contributed to Intel Snap plugin using Go to extract NVMe-based cloud storage telemetry and monitor NVMe over Fabrics using Docker containers orchestrated by Kubernetes		
Software Engineer (R&D)	NTT Data Americas	July 2012-Mar 2014
<ul style="list-style-type: none">Implemented Central Logging System and 'Backup and Restore' System of GresCube™: a commercial distributed database service which guarantees minimal downtime and enhanced business continuity by testing network package flow in PythonArchitected six times faster disaster recovery operations module using various file synchronization, archive and transfer utilities upon customer's demand after the Megaquake of Japan by designing high availability services inside containers on RHEL LinuxAnalyzed and performed an extensive research on issues with virtualization overhead caused by LXC Containers, KVM and OpenVZ, for distributed databases whose outcome became the foundation of GresCube™Developed Puppet and Kickstart scripts to automate creation of web server components called PROSSIONE™		
Part Time Lecturer	Rutgers University	Aug 2016-Dec 2017
<ul style="list-style-type: none">Constructed, implemented and executed an effective lesson plan for a diverse group of college studentsTaught logic and thought building techniques for programming using Scratch and Python		

EDUCATION

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

LANGUAGES AND TECHNOLOGIES (YEARS)

- Python(4+), C(3+), Java(2+), Go(1); Virtualization- Libvirt(2+), LXC(2+), KVM(2+); Cloud- Kubernetes(1+), Docker(2+), Bluemix(1), Puppet(1+), Ansible (1), Jenkins(1), ElasticSearch(1), Logstash(1), Kibana(1), Grafana(1), Spark(1), AWS(1+), Google Cloud(1); Database-PostgreSQL(2+); Web-HTML5(1+), CSS(1+), JavaScript(1+), Bootstrap(1+); Linux(8+); GitHub(4+); Agile(2+), DevOps(2+)

TECHNICAL PROJECTS

- Deep Learning using Tensorflow and Apache Spark** (2017)- Implemented a Python tool that recognizes the objects held in front of web cam of a computer and classifies them using deep learning neural networks with Tensorflow, OpenCV and Apache Spark
- POSIX Pthread Library** (2016)- Designed and developed an UNIX-style multi-level feedback queue scheduler scheduler that contains implementations of primitive functions of original Pthread library 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 No-Random Access (NRA) indexing for big data using Python, Flask, MariaDB and Bootstrap
- 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.

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
- Gold Medal for the Best Research Project**: Awarded by Tata Consultancy Services for my undergraduate research project, out of all the projects in all 14 departments of my school