

# Pritha D Narayanappa

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## EDUCATION

### UNIVERSITY OF CALIFORNIA SANTA BARBARA

#### MS IN COMPUTER SCIENCE

Dec 2016 | Santa Barbara, CA

GPA: 4.0 / 4.0

Research Asst. SAND Lab

Advisor: Prof. Ben Y. Zhao

Conc. in Security, Machine Learning

### PES INSTITUTE OF TECHNOLOGY

#### BE IN INFORMATION SCIENCE

June 2011 | Bangalore, India

GPA: 9.47 / 10.0

Merit Scholarship all 4 years (Top 5/150)

## LINKS

Github:// [pritha90](#)

LinkedIn:// [PrithaDN](#)

Quora:// [Pritha-D-Narayanappa](#)

## COURSEWORK

### GRADUATE

Applied Machine Learning

Distributed Systems

Applied Parallel Computing

Cryptography-Theory and Applications

Data and Knowledge Bases

### UNDERGRADUATE

Operating Systems

Data Mining

Computer Security

Computer Networks

Algorithms Design & Analysis

Database Systems

### PUBLICATIONS

Face recognition using a trichotomic combination of SVD, DF-LDA and LPP; ICCAE 2010, Singapore.

Face Recognition by Feedforward Neural

Network using Laplacian of Gaussian filter and

Singular Value Decomposition; ICIIC 2010,

Bangalore, India.

## SKILLS

### PROGRAMMING

Over 1000 lines:

• Python • Java • C

• Android • C++ • JavaScript

Familiar:

• Rails • iOS • MySQL

• MongoDB • CSS • Redis

## EXPERIENCE

Over 6 years of industry experience in Software Engineering.

### RIVERBED TECHNOLOGY | MEMBER OF TECHNICAL STAFF

Jan 2017 – present | San Francisco, CA

(Software Development Intern, June 2016 – Sep 2016)

Network Performance Management Platform team(Python, C): Involved in the design, development and support of:

- Operating System and manageability software running on the SteelCentral product line, mainly dealing with Storage devices support, Network interfaces, SNMP support.
- Infrastructure tools and systems aimed at stress testing SteelCentral AppResponse.
- Tools to manage virtualization infrastructure (VMware and AWS)

### CITRIX SYSTEMS | SENIOR SOFTWARE ENGINEER 1

July 2011 – Aug 2015 | Bangalore, India

- NetScaler Networking Team ( C ) Part of a three member team involved in the development of the Large Scale Network Address Translation (LSN) feature for protocols TCP, UDP, ICMP.
- NetScaler GUI Team ( JavaScript, HTML ) Developed a web-based mobile application (Android and iOS) for monitoring a NetScaler Load balancer.

### CISCO SYSTEMS | SOFTWARE DEVELOPMENT INTERN

Jan 2010 – June 2010 | Bangalore, India

Tools written in Python to aid Network Engineers in the task of migrating routers from the IOS to XR Operating System.

## PROJECTS

### Solution for secure, anonymous, group communication on OSNs

Developed a system (Android app, Chrome Plugin) that allows a group of users to share a Twitter account or Facebook page, without sharing the account password. A cryptographic token is appended to each post, which allows authenticity and integrity checks.

### User Behavior Modeling on Financial Message Boards

Crawled data from the InvestorsHub website(53K users and 5.6M posts). Employed Machine Learning techniques: PCA, Random Forest, K-Means, hierarchical clustering, to identify, cluster and infer roles of users exhibiting similar behavior.

### Sync Inc - Implementation for Log Replication and Raft

**Consensus** Implemented Wuu Bernstein's log replication protocol and Raft consensus protocol in Java. In a distributed system, it supports leader election and runtime configuration changes like addition and deletion of nodes.

### Quantifying the difference in performance of MLaaS Platforms

Analysed the variance in performance when using a black-box vs parameter aware and tuned approach to machine learning.

### Parallel KMeans using CUDA

Implemented K-Means Clustering in C using CUDA. Observed maximum speedup of 104X.

## AWARDS

2011 National  
2010 2/300

Google India Women in Engineering Award finalist  
Selected to attend International Summer  
University Program, HEIG-VD, Switzerland