Sandeep Raju Prabhakar

+1 (224) 509 0292 SandeepPrabhakar2015@u.northwestern.edu Open to relocation across United States Github://sandeepraju Linkedin://sandeeprajup Twitter://@sandeeprajup

Education

Northwestern University - Evanston, IL

Expected Dec 2016

Master of Science in Computer Science - GPA: 3.93 / 4.00

PES University - Bangalore, India

Jun 2013

Bachelor of Engineering in Computer Science - GPA: 8.50 / 10.00

Technical Skills

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- ☐ **Proficient:** Python, SQL, HTML, CSS
- ☐ Familiar: JavaScript, Java, Go, C, C++, BASH, PHP

Design / User Experience: Adobe Photoshop, Balasmiq

Other Technologies:

- ☐ **Proficient:** Django, Flask, Ionic, PostgreSQL, Redis, Git, Emacs, Linux CLI
- ☐ Familiar: NodeJS, ReactJS, Spring boot, MongoDB, MySQL, AWS, Heroku, Bootstrap, AngularJS, Android, WordPress, Docker

Work Experience

Expedia, Inc. - Chicago, IL Jun 2016 - current

Software Development Engineering Intern (Expedia Worldwide Engineering team)

- Developing a tool to automatically reconcile hotel room bookings from multiple third party hotel inventory providers.
- ☐ Working on simplifying the process of developing and deploying Java Spring Boot application on AWS Lambda.

Foodrop, Inc. - The Garage, Northwestern University, Evanston, IL

Jan 2016 - current

Co-founder and Lead Software Engineer

- Co-founded Foodrop, an aggregated food ordering platform run by students as a part of NUvention entrepreneurship course.
- Designed and built the backend infrastructure along with the mobile application that powers the platform.
- ☐ Processed 300+ orders in a two-week trial run in spring 2016 at Kellogg School of Management, Northwestern University.

Introduction to Programming (Python) - Northwestern University, EECS Department, Evanston, IL

Jan 2016 - Mar 2016

Teaching Assistant

- ☐ Conducted recitation sessions for a class of 52 to review the course content & discuss the assignments.
- ☐ Held office hours to help students, provided feedback on course content to instructor and prepared content for assignments.

Plivo, Inc. (YC S12) - Bangalore, India

Jun 2013 - Aug 2015

- Product Engineer
 - ☐ Was part of a three member Product Engineering team responsible for architecting, building and scaling the platform.
 - ☐ Authored an open source rate limit queuing system called SHARQ (http://sharq.io/).
 - Developed a distributed Call & SMS dispatch system; led the process of porting the SMS routing and billing system to Golang.

Shippr.in - Bangalore, India

Jan 2015 - Aug 2015

Software Development Consultant

- ☐ Developed the real-time vehicle tracking framework in NodeJS, SocketIO and Redis.
- Designed the backend architecture and the REST APIs using Django REST Framework.

Practo Technologies - Bangalore, India

Jan 2013 - May 2013

Software Engineering Intern

- ☐ Developed the server side PUSH notification backend for Practo Hello mobile application.
- ☐ Integrated a cloud telephony service provider to Practo Hello web application.

Alphamatters Advisors - Bangalore, India

Nov 2012 - Dec 2012

Software Engineering Intern

- ☐ Developed SOAP & REST APIs for their core stock prediction system.
- ☐ Plotting and regression analysis of stock market data in realtime.

Projec	t Experience					
Sulley: <i>Author</i>	An open source framework for building SMS bots - Evanston, IL	Apr 2016 - Jun 2016				
	Developed a framework to help developers build SMS bots with very few files of Python code. Currently supports two major SMS providers (Twilio & Plivo) that can be seamlessly switched. Future plan is to add plugin support to the framework to make integrations easy.					
Softwar	Fresh: Predicting Restaurant Inspections - EECS Department, Northwestern University, Evanston, IL to Developer Worked towards predicting restaurant health violations using open data from Yelp and City of Boston. Evaluated and implemented machine learning techniques like SVM, Bayes Nets, Decision Trees and Neu	Apr 2016 - Jun 2016				
Python Research	Data Workflow Framework - EECS Department, Northwestern University, Evanston, IL ther & Software Developer Worked towards evaluating machine learning libraries that support online learning to aid a mobile secu Tencent Inc, to model mobile phone usage patterns to classify the mobile phone user as 'owner or not'. Developed a data workflow framework on top of Vowpal Wabbit to help run large scale experiments. The results of this research has been submitted to the 'Computer and Communications Security (CCS 20)	Jan 2016 - Mar 2016 rity project with				
SHARQ	: An open source rate limiting queuing system - Plivo Inc., India, Bangalore	Jul 2014 - Aug 2014				
Author	Architected and implemented a rate limiting queue based on the novel approach by Alan Shreve. The project was eventually open sourced and currently available at http://sharq.io and Github. A few startups are using SHARQ in their infrastructure as of today.					
	sed Telephony System on a Private Cloud - PES University, India, Bangalore	Jan 2013 - May 2013				
	The Developer Created a platform to abstract the process of managing a telephony infrastructure on private cloud. Designed a technique to offload call-flow logic to a system connected over the network. Prototyped a new JSON based format to represent a call flow or an IVR.					
A Weigl	A Weight-based Personalized Recommendation System for Movies - PES University, India, Bangalore Aug 2012 - Dec 2012					
<u> </u>	Created a weight based recommendation system using graph as the primary data-structure. A prototypical movie explorer software was built to survey the effectiveness of the algorithm. Findings of the research received critical reviews and invaluable feedback from WWW2014 reviewers.					
Confer	ence and Workshop Presentations					
Technic	India 2014 - Bangalore, India al Speaker Selected from a pool of more than hundred talk proposal to present my project at PyCon India 2014.	Sept 2014				
ū	Presented a talk titled "SHARQ - An API queueing system built at Plivo!" based on the project I authored					
Worksh	en Source: Tech Thursdays - PES University, Bangalore, India op Presenter	Feb 2013				
	Conducted a technical hands-on workshop on "Git - the distributed version control system". Handled topics from basics like add, commit to advanced topics like Git workflow, interactive rebase, Git workflow, Git workflo	it bisect, Git reverts.				
Worksh	t Nokia Developer Workshop - IIIT-B, Bangalore, India op Presenter Conducted a day-long workshop on building user interface components using Adobe Photoshop. The workshop was attended by more than hundred students from universities all over India.	July 2012				
Awards and Scholarships						
Distinc	tion Awards - PES University, Bangalore, India For academic excellence in multiple semesters during undergraduate studies.	Aug 2009 - Jun 2013				

MHRD Scholarship - Government of India, India

☐ For academic excellence by securing high score in the Pre-University examination.

Aug 2009