Sandeep Raju Prabhakar

+1 (224) 509 0292 SandeepPrabhakar2015@u.northwestern.edu 1021, Dempster St, Apt. 1W, Evanston, IL - 60201 Github://sandeepraju Linkedin://sandeeprajup Twitter://@sandeeprajup

Education	
Northwestern University - Evanston, IL Master of Science in Computer Science - GPA: 3.76 / 4.00	Expected Dec 2016
PES University - Bangalore, India Bachelor of Engineering in Computer Science - GPA: 8.50 / 10.00	Jun 2013
Technical Skills	
Programming: Proficient: Python, C, SQL, HTML, CSS Familiar: Go, C++, Java, Linux Shell, PHP, JavaScript	
Design / User Experience: Adobe Photoshop, Balasmiq	
Other Technologies: Proficient: Django, Flask, PostgreSQL, Redis, Git, Emacs, Linux CLI Familiar: Gevent, NodeJS, MySQL, Amazon Web Services, Heroku, Bootstrap, Wireshark, WordPress	
Work Experience	
 Introduction to Programming (Python) - Northwestern University, EECS Department, Evanston, IL Teaching Assistant Conducting recitation sessions for a class of 52 to review the course content & discuss the assignments. Holding office hours to help students with any questions on the lab and assignments. Helping the instructor by giving feedback on course content prior to each class. 	Jan 2016 - Mar 2016
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 scalin □ Authored an open source rate limit queuing system called SHARQ (http://sharq.io/). □ Developed a distributed Call & SMS dispatch system and a Fraud detection & alerting system. □ Led the process of porting the SMS routing and billing system to Go. 	g the platform.
Shippr.in - Bangalore, India Software Developer Consultant Developed the real-time vehicle geo-tracking framework in NodeJS, SocketIO and Redis. Designed the PostgreSQL database models and the REST APIs using Django REST Framework.	Jan 2015 - Aug 2015
Practo Technologies - Bangalore, India 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.	Jan 2013 - May 2013
Alphamatters Advisors - Bangalore, India Software Engineering Intern Developed SOAP & REST APIs for their core stock prediction system. Plotting and regression analysis of stock market data in realtime.	Nov 2012 - Dec 2012
Project Experience	
Mobile Risk Management - EECS Department, Northwestern University, Evanston, IL Researcher & Software Developer □ Building a technique to model mobile phone usage patterns to classify the mobile phone user as 'owner □ Working on developing an online binary classification model based on support vector machines.	Jan 2016 - Mar 2016 or not'.

	tion: Web + Media - EECS Department, Northwestern University, Evanston, IL	Jan 2016 - Mar 2016
Product	Developer Building a mobile application that simplifies the entire experience of dining at restaurants with your fried In the process of prototyping an MVP using supersonic framework, conducting user interviews and desig	
	eer Discovery Platform - EECS Department, Northwestern University, Evanston, IL	Jan 2016 - Mar 2016
Product	Developer & UX Designer Building a discovery platform for Charities / Non-profits to connect with people interested to volunteer. As a part of the 'Human Computer Interaction' course, the focus is to present our take on the intuitive us Working on prototyping the user interface using MarvelApp & Adobe Photoshop and implementing in ior	
	: 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 re Developer	Jan 2013 - May 2013
	Created a platform to abstract the process of managing a telephony infrastructure on the 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.	
_	ht-based Personalized Recommendation System for Movies - PES University, India, Bangalore	Aug 2012 - Dec 2012
	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	rence and Workshop Presentations	
	India 2014 - Bangalore, India al Speaker	Sept 2014
	Selected from a pool of more than hundred talk proposal to present my project at PyCon India 2014. Presented a talk titled "SHARQ - An API queueing system built at Plivo!" based on the project I authored.	
	en Source: Tech Thursdays - PES University, Bangalore, India	Feb 2013
	op Presenter 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, Gi	t bisect, Git reverts.
	t Nokia Developer Workshop - IIIT-B, Bangalore, India	July 2012
	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.	
Award	s 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