## Sandeep Raju Prabhakar

+1 (224) 509 0292 SandeepPrabhakar2015@u.northwestern.edu Seeking full-time opportunities starting Jan, 2017. Open to relocation across United States. Github://<u>sandeepraju</u> Linkedin://<u>sandeeprajup</u> Twitter://<u>@sandeeprajup</u>

Education	
Northwestern University - Evanston, IL Master of Science in Computer Science - GPA: 3.93 / 4.00	Expected Dec 2016
<b>PES University</b> - Bangalore, India Bachelor of Engineering in Computer Science - GPA: 8.50 / 10.00	Jun 2013
Technical Skills	
Programming:  Proficient: Python, SQL, HTML, CSS Familiar: JavaScript, C, Java, Go, 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, V	WordPress
Work Experience	
Expedia, Inc Chicago, IL  Software Development Engineering Intern (Expedia Worldwide Engineering team)  Developed hotel booking reconciliation tool in Java Spring Boot on AWS that monitors ghost boo  Developed the property management portal using ReactJS, jQuery, Java Spring Boot & MongoDB	•
Foodrop, Inc The Garage, Northwestern University, Evanston, IL  Co-founder and Lead Software Engineer  □ Co-founded Foodrop, an aggregated food ordering platform run by students as a part of NUventic  □ Designed and built the backend infrastructure along with the iOS and Android mobile application  □ Processed 300+ orders in a two-week trial run in spring 2016 at Kellogg School of Management, N	n that powers the platform.
<ul> <li>Introduction to Programming (Python) - Northwestern University, EECS Department, Evanston, IL</li> <li>Teaching Assistant</li> <li>Conducted recitation sessions for a class of 52 to review the course content &amp; discuss the assignment of the power of the powe</li></ul>	
Plivo, Inc. (YC S12) - Bangalore, India  Product Engineer  Was part of a three member Product Engineering team responsible for architecting, building and Authored an open source rate limit queuing system called SHARQ (http://sharq.io/) for the SMS in Developed a distributed Call & SMS dispatch system; led the process of porting the SMS routing a	nfrastructure at Plivo.
Shippr.in - Bangalore, India  Software Development Consultant  □ Developed the real-time vehicle tracking system in NodeJS, SocketIO and Redis used by Shippr d  □ Designed the backend architecture and the REST APIs using Django REST framework currently us	Jan 2015 - Aug 2015  Iriver's android application.
Practo Technologies - Bangalore, India  Software Engineering Intern  □ Developed the PUSH notification backend for Practo Hello mobile application used by thousands □ Integrated a cloud telephony provider (KooKoo) to Practo Hello web application to help doctors in	
Alphamatters Advisors - Bangalore, India  Software Engineering Intern  Developed SOAP & REST APIs in PHP and a micro server in Python talking to MATLAB for their cord Plotting the regression analysis of stock market data in realtime using SocketIO and nvd3.js.	Nov 2012 - Dec 2012 re stock prediction system.

**Project Experience** Sulley: An open source framework for building SMS bots - Evanston, IL Apr 2016 - Jun 2016 Author Developed a framework to help developers build SMS bots using Twilio or Plivo with a very few lines of Python code. ☐ Lets the user perform generic tasks over SMS by defining commands bound to functions using Python decorators. ☐ Future plan is to create access control and admin commands to manage the bot remotely using SMS. Keep It Fresh: Predicting Restaurant Inspections - EECS Department, Northwestern University, Evanston, IL Apr 2016 - Jun 2016 Software Developer ☐ Worked towards predicting restaurant health violations using data from Yelp and City of Boston health violation history. ☐ Evaluated and implemented machine learning techniques like Decision Trees and Neural Networks in Python. Python Data Workflow Framework - EECS Department, Northwestern University, Evanston, IL Jan 2016 - Mar 2016 Researcher & Software Developer ☐ Worked towards evaluating machine learning libraries that support online learning to aid a mobile security project with 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 2016)' ACM conference. 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 conceived by Alan Shreve. ☐ The project, written in Python using Gevent and Flask on Redis is open source and available at http://sharq.io and Github. ☐ A few startups including Plivo are using SHARQ in their infrastructure as of today for throttling generic jobs. Web based Telephony System on a Private Cloud - PES University, India, Bangalore Jan 2013 - May 2013 Software Developer ☐ Created a tool using Python and Asterisk to abstract the process of managing a telephony infrastructure on private cloud. ☐ Developed an IVR builder interface and backend server 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 similar to today's Twilio's TwiML or Plivo XML. A Weight-based Personalized Recommendation System for Movies - PES University, India, Bangalore Aug 2012 - Dec 2012 Researcher & Software Developer ☐ Created a weight based recommendation system using graph as the primary data-structure using Python networkX package. ☐ A prototypical movie explorer software was built in Qt C++ to survey the effectiveness of the algorithm with real users. ☐ Findings of the research received critical reviews and invaluable feedback from WWW2014 reviewers. **Conference and Workshop Presentations** PyCon India 2014 - Bangalore, India Sept 2014 Technical Speaker ☐ 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. PES Open Source: Tech Thursdays - PES University, Bangalore, India Feb 2013 Workshop 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, Git bisect, Git revert. Student Nokia Developer Workshop - IIIT-B, Bangalore, India July 2012 Workshop Presenter ☐ Conducted a day-long workshop on building user interface components using Adobe Photoshop and Corel Draw. ☐ The hands-on workshop was attended by more than hundred students and professionals from all over India. **Awards and Scholarships** Distinction Awards - PES University, Bangalore, India Aug 2009 - Jun 2013 ☐ For academic excellence in multiple semesters during undergraduate studies. MHRD Scholarship - Government of India, India Aug 2009 ☐ For academic excellence by securing high score in the Pre-University examination.