## Sandeep Raju Prabhakar

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Github://sandeepraju LinkedIn://sandeeprajup Twitter://@sandeeprajup

Technical Skills	
Programming:  ☐ Proficient: Java, Kotlin, Python, SQL ☐ Familiar: Golang, Scala, JavaScript, BASH, HTML, CSS, C/C++	
Other Technologies:  Proficient: AWS, Apache Spark, Kafka & Kafka Streams, Docker, Maven, Postgres, Redis Familiar: Elasticsearch, C*, Tensorflow & Keras, Spring, Kubernetes	
Work Experience	
Amazon.com, Inc Sunnyvale, CA  Software Engineer - Big Data Technologies  Leading the initiative to architect a big data discovery and exploration platform for datasets across Amazon, work  Feature development on exabyte scale big data ingestion platform in Java.	019 - Current ·ldwide.
Salesforce.com, Inc Palo Alto, CA  Senior Member of Technical Staff  As a part of the founding member of this team, developed a data platform to power "Einstein Insights" for "Sales Inbox".	
<ul> <li>□ Built real-time data pipelines using Kafka, Apache Spark (Scala) and PostgreSQL to process ~100M events/day.</li> <li>□ Architected and developed kafka-streams based data pipeline that powers engagement &amp; alerts for "Salesforce E</li> <li>□ Developed an in-house job workflow scheduler called Alcatraz and led the migration of Apache Spark jobs to it.</li> <li>□ Built scalable GraphQL AP using Kotlin, C* and PostgreSQL to power "Salesforce Inbox" mobile application.</li> </ul>	Einstein".
Expedia, Inc Chicago, IL  Software Development Engineering Intern  Developed hotel booking reconciliation tool in Spring Boot on AWS that monitors "ghost bookings" in the inventor Developed the property management portal using ReactJS, Spring Boot & MongoDB and deployed on AWS.	
Plivo, Inc Bangalore, India  Software Engineer  Was part of a three member Product Engineering team responsible for architecting, building and scaling the plate  Authored an open source rate limit queuing system called SHARQ (http://sharq.io/) for the SMS infrastructure at I  Developed a Call & SMS dispatcher in Python; led the process of porting the SMS routing & billing system to Golar	form. Plivo.
Northwestern University - 633 Clark Street, Evanston, IL 60208 Master of Science in Computer Science - GPA: 3.94 / 4.00	16 Dec 2016

## **Academic, Professional and Personal Projects**

Foodrop, Inc. - Northwestern University, Evanston, IL

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

Jun 2016 - Dec 2016

04 May 2014

Co-founder and Lead Software Engineer

- Conceived and built Foodrop, an aggregated meal delivery startup as a part of NUvention entrepreneurship program.
- Developed backend ordering and dispatch platform using Python & Parse BaaS and iOS & Android applications with Ionic.
- ☐ Profitable from the first week of operations; served more than 500+ customers with ~100 orders/day for 6 months.
- ☐ One of the few startups to be featured on the coveted "Ideas @ Northwestern" list.

PES Institute of Technology - 100 Feet Ring Road, BSK III Stage, Bangalore - 560085, India

<b>Sulley:</b> Author	An open source framework for building SMS bots - Evanston, IL	Apr 2016 - Jun 2016
0	Developed a framework to help developers build SMS bots using Twilio or Plivo with very few lines of Pyth Lets the user perform generic tasks over SMS by defining commands bound to functions using Python dec Sulley was used to power SMS notifications and implement order confirmation for Foodrop.	
		Jan 2016 - Dec 2018
Researd	Cher & Software Developer  Worked towards evaluating machine learning libraries that support online learning to aid a mobile securing Tencent Inc., to model mobile phone usage patterns to classify the mobile phone user as 'owner or impost Developed a data workflow framework on top of Tensorflow to help run large scale experiments for thouse The results of this research is published as a preprint in "IEEE Transactions on Mobile Computing 2019".	ter.
	: 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 Shrev The project, written in Python using Gevent and Flask on Redis is open source and available at http://shar A few startups including Plivo are using SHARQ in their infrastructure as of today for flexible throttling.	
Confer	rence and Workshop Presentations	
	g: Unobtrusive Real-time User Authentication on Mobile Devices - IEEE Transactions on Mobile Comput Cher & Co-author  Worked on achieving user authentication based on mobile phone usage pattern during masters at Northy  This work appeared in "IEEE Transactions on Mobile Computing 2019" (DOI 10.1109/TMC.2019.2892440).	
Technic	@ Activity Insights - Salesforce, San Francisco, United States cal Speaker Presented a talk on my experience of using Kotlin at Activity Insights since early 2016. The talk was attended by almost all Salesforce Sales Cloud Architects and many Principal Engineers acros	Jul 2018
Technic	e <b>Spark Bay Area Meetup</b> - Palo Alto, United States cal Speaker Presented a talk titled "Dependency injection in Apache Spark Applications" based on an internal project	May 2017 at Salesforce.
	Introduced a novel way to inject dependencies in distributed Apache Spark applications using Guice.	
Technic	India 2014 - Bangalore, India cal Speaker Selected from a pool of more than hundred talk proposals 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.	Sept 2014
Patent	ts, Awards and Scholarships	
	<b>#20190140995: Action response selection based on communication message analysis</b> - Salesforce, Pal For the email insight generation pipeline built to power "Salesforce Inbox".	o Alto May 2019
	eroic Hack @ SalesforceIQ Hackday 2018 - Salesforce, Palo Alto For working on a PoC using OpenFaas and Apache Kafka to build a new way for generating email Insights.	May 2018
Distinc	t <b>ion Awards</b> - PES University, Bangalore, India For academic excellence in multiple semesters during undergraduate studies.	Aug 2009 - Jun 2013
	<b>Scholarship</b> - Government of India, India  For academic excellence by securing high scores in the Pre-University examination.	Aug 2009