Akshay Hundia

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Software Engineer with 5 years of experience in designing and developing cutting edge products using Object Oriented Programming. An equally effective problem solver and entrepreneur experienced in creating technological solutions to solve real world issues.

Education

Carnegie Mellon University   Pittsburgh, PA
Master of Information Systems Management (GPA 3.54)   May 2017
Relevant Coursework: Cloud Computing, Scalable Systems, IT Project Management, Machine Learning, NoSQL, Internet of Things

Dhirubhai Ambani Institute of Information and Communication Technology   Gandhinagar, India
Bachelor of Technology in Information and Communication Technology (GPA 3.79)   May 2011
Relevant Coursework: Distributed Computing, Data Structures and Algorithms, Object Oriented Programming, Operating Systems, DBMS

Skills

- *Languages:* Java, React, Python, HTML, CSS, JavaScript, NodeJS, Linux Shell Scripting(CentOS/Ubuntu), R-Programming, Scala, Spark
- *Toolkits:* Native Android (Coursera Certified), React Native, Docker, Spring, Hibernate, Maven, Kafka, Samza, XML, SOAP, REST, JMS
- *Code Repository & Management:* Git, Bit-bucket, SVN, Gerrit, Jenkins, Rally
- *Databases:* MySQL, PostgreSql, Oracle, Mongo DB, Dynamo DB, Redis, Elastic Search, Hadoop, HBase, Cassandra, Neo4j
- *Cloud Services (PaaS, Saas):* Amazon Web Services (EMR, EC2, RDS), Microsoft Azure

Academic Projects

Distributed Data Center for e-commerce and social media platforms *(Carnegie Mellon University)*   Aug 2016-October 2016
- Implemented a Data Server distributed across the globe to achieve strong and eventual consistency for high data availability.
- Used Java multi-threading for sharding and replication of data to scale a Data Store horizontally and improve system performance.

Fast interactive Twitter web services for data retrieval *(Carnegie Mellon University)*   October 2016-December 2016
- Developed Python scripts to clean and extract relevant data from crude Twitter logs for impact and similarity calculation of tweets.
- Employed the MapReduce framework to implement an end-to-end cloud-based solution for processing large-scale datasets.
- Engineered a thin layered load balancer and caching server which helped in the load distribution of requests across 6 servers.

PittCabs: Real-time transit and Dynamic pricing infrastructure *(Carnegie Mellon University)*   November 2016-December 2016
- Employed Kafka to publish a stream of GPS data using the location of customers and cab drivers for vehicle movement processing.
- Leveraged Samza API to process multiple streams of GPS data in enabling a driver matching and dynamic pricing service like Uber.

Work Experience

CyLab, Carnegie Mellon University   Pittsburgh, PA
Research Assistant   November 2016-Present
- Built a web browser extension to gather required data for consumer behaviour analysis based on ads and to route it to the server.
- Created a Centralized Rule Engine executing custom rules, to analyse collected data useful for instant trend prediction.
- Developed an application to detect order confirmation emails and to extract information about price and amount from them.

StapleFactory e-commerce LLP   Bangalore, India
Co-Founder (CTO)   August 2015-May 2016
- Implemented an elastic distributed cloud server to expose the Restful web services using EC2, RDS and ELB services of AWS.
- Built a content-based recommendation system which uses user preferences and history to recommend relevant products.
- Conceptualized and published the StapleFactory Android application, used for purchasing goods, using adaptive UI components.

Samsung R&D Institute   Bangalore, India
Lead Engineer   April 2016-May 2016
- Improved user engagement on the Samsung mobile browser by creating web services to send customized data as quick access links.
- Refactored the design of Quick Access APIs to improve its throughput from Samsung browser & to enable better tracking of users.

Hewlett-Packard R&D labs   Bangalore, India
Software Engineer II   May 2015-March 2016
- Implemented platform APIs for HP Oneview, which enabled clients and partners to control the configuration of blade servers.
- Devised Linux and Python scripts to ensure replication of data over the nodes which helped in making the system highly available.

Maxim Integrated Inc.   Dallas, TX and Gandhinagar, India
Engineer II, MFG-IT   June 2011-April 2015
- Introduced Agile framework and collaborated with stakeholders as the Scrum Master, reducing the project delivery time by 10%.
- Implemented a Factory Automation Suite comprising of a cloud based Business Rule Engine and data feeding slave applications.
- Devised custom ETL systems for the cleansing and validation of the data, which reduced the loading errors by 13%.

Leadership

- Serving as a Graduate Teaching Assistant for 'Distributed Systems' and 'Intermediate Java II' courses at Carnegie Mellon University.
- Served as the Convener, Student Government, DA-IICT for the year 2010-2011 leading a team of 150 members.