Tushar Sharma

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WORK EXPERIENCE

Syncsort, Pearl River, NY, USA

- Big Data Engineer   Feb 2017 – Present
  - Implemented a Kakfa Connector using Java Kafka library to write messages to a Kafka Target while connecting to kerberos using DMExpress
  - Designed & Implemented ETL & Mapreduce jobs to transfer data from teradata to Hive
  - Designed & Implemented a command line monitoring utility that collects statistics form the running ETL jobs on the cluster.
  - Developed a lexer in Python using JIRA's API to automate creation of release documents for customers
  - Developed Chef recipes & git hooks for infrastructure enhancements
  - Developed a Dashboard using Django, Postgres, Chart.js which helps monitors & analyze disk usage of all the production machines.

Accenture, India

- Software Engineer Analyst   Dec 2013 – Feb 2015
  - Redesigned legacy code to more scalable systems from JCL (Mainframe) to Perl
  - Part of Agile development, unit testing, SQL query optimization
  - Developed modules using server side Java and SQL/PL-SQL programming

EDUCATION

New Jersey Institute of Technology, Newark,NJ, USA

- M.S in Computer Science   Aug 2015 – Dec 2016
  - Cumulative GPA: 3.65 / 4.0

  - Relevant Coursework:

    Algorithms & Data Structure, Cloud Computing, Database Management, Machine Learning, Data Mining, Linux Kernel, Cryptography, Operating System, Computer Networks.

University of Florida, Gainesville, Florida

- Senior Certificate in Computer Science & Engineering   Dec 2012 – May 2013

Jaypee University of Information Technology, India

- Bachelor of Technology in Electronics & Communication   May 2009 – May 2013

SKILLS

Languages:	Java, C/C++, Python, Perl, Shell(*in order of preference*)
Databases:	MySQL, PostrgeSQL, Apache Hive, DynamoDB, Oracle9i, Teradata
Web :	HTML/CSS, Bootstrap, REST API, Javascript, Django
Hadoop Clusters:	Cloudera, HDP, MapR, Amazon EMR, AWS Lambda
Messaging Queue:	Kafka, RabbitMQ, Amazon Kinesis
VCS:	Git, Subversion
Operating Systems:	GNU Linux, Mac OSX, Windows
Others:	Chef, Docker, Vagrant, Maven, Microsoft Visual Studio, IntelliJ IDEA

GRADUATE PROJECTS	**Predicting the Click Through Rate (CTR) for Mobile Advertisements**

- Build large-scale distributed statistical models to track and predict click-through-rate (CTR) of users who click on specific link/ad.
- Used Spark Pipeline API & Grid Search to use best different models like k nearest neighbor, logistic regression, etc to predict click through rate
- Technology used : Spark, Scala

Implemented various cryptography's standards

- Implemented standards like AES, DES, RSA without libraries. Compared performance & vulnerabilities like side-channel attack.
- Technology used : C++, Linux

Internet Network Emulator

- Implemented IP forwarding link state routing at the application layer. Simulated nodes failure & shortest path routing.
- Technology Used: Python; BSD Socket.

ACTIVITIES

- Wrote an article "Why I never close Emacs" for Linux For You Magazine, edition January 2014
- Deputy Coordinator of technical club (2010 – 2011), oversaw technical workshops at the university, India.

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