

## **Tushar Sharma**

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### **WORK EXPERIENCE**

#### **Moodys, Charlotte, NC**

- Software Engineer Nov 2019 – Present
  - Designed & Implemented REST API for ETL jobs using Django & React
  - Developed Spark jobs for data processing using AWS Glue, Scala
  - Implemented lambda functions for data wrangling using Python

#### **Syncsort, Pearl River, NY**

- Associate Software Engineer Feb 2017 – Oct 2019
  - Implemented a Kafka Connector using Java Kafka library to write messages to a Kafka Target while connecting to kerberos using DMExpress
  - Designed RESTful API for backend ETL services using Spring Boot.
  - Deployed, debugged and maintained distributed software stacks, containing Apache Spark, Hadoop HDFS, on cloud-based AWS systems. Optimized the stacks for best computational performance and stability.
  - Developed a lexer in Python using JIRA's API to automate creation of release documents for customers, chef recipes & git hooks for infrastructure enhancements.
  - Developed a Dashboard using Django & React which helps monitors & analyze data its lineage.
- Intern Feb 2017 – Oct 2019
  - Implemented a Kafka Connector using Java Kafka library to write messages to a Kafka Target while connecting to kerberos using DMExpress
  - Deployed, debugged and maintained distributed software stacks, containing Apache Spark, Hadoop HDFS, on cloud-based AWS systems. Optimized the stacks for best computational performance and stability.

#### **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

<b>SKILLS</b>	Paradigms:	OOP / functional / reactive
	Languages:	Java / Python / C++/ Javascript / Scala / Perl / PL/SQL
	Libraries:	Jquery / Numpy / Pandas
	Relational Database:	MySQL / PostgreSQL / Oracle / Sybase / Redshift
	NoSQL:	DynamoDB
	Frameworks:	Flask / Django / React / Spring Boot (Webflux)
	Big Data:	Hadoop / Spark / Hive / Elasticsearch
	Message Broker:	RabbitMQ / Kafka
	AWS:	EC2 / EMR / Lambda/ Glue / Cloudformation / CDK API Gateway, Step functions
	CI:	Jenkins / Github Actions/ AWS Codepipeline
	Tools:	Docker / Kubernetes
	Practices:	MVC / TDD / BDD / Agile

## 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, AWS (EC2, S3)

### **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 JUIT