**Deepak**

**Deepak.325278@2freemail.com**

**Senior Technology Professional**

*Systems, Solutions, Big Data*

**Professional Experience**

sparkpost, Seattle, Washington may’15 – present

**Data Engineer**

* Empowering partners with advanced analytical solutions at Sparkpost, a high performing email infrastructure that delivers 25% of global emails.
* Managed, designed and implemented collection & rotation of log files across our cloud infrastructure.
* Administered Sumo Logic, a tool that allows us to build real-time intelligence dashboards around email activity.
* Mastered Sumo Logic's query language and built several business intelligence dashboards for compliance and deliverability teams, with a goal to improve the overall efficiency.
* Architected and implemented an EMR cluster that runs MRJob, Hive, Presto, Hue and AirPal, a highly effective solution for all our data/business-intelligence needs.
* Implemented a real time data ingestion platform using AWS Kinesis, in-turn allowing for real time analytics.
* Designed and programmed a python based spam detection and suspension algorithm that parses for specific patterns in real-time, as new emails are injected into the system.

Amazon.com, Seattle, Washington mar’14 – mar’15

**Business Intelligence Engineer**

* Worked as an independent consultant for the AWS Networking Analytics & Metrics group, with primary focus on the deployment process of the complex and the ever so rapidly growing network.
* Owned the design and development of database cubes stitching several infrastructure related OLTP databases.
* Interfaced with data miners to extract, transform and load data from a variety of sources using SQL and Python.
* Created several self-serve visualization dashboards using Tableau, summarizing the time consumed at each stage of a network rack deployment process, from inception to execution.
* Presented results to AWS Network managers and proposed data driven strategies to reduce deployment cycle time.

Bloomberg L.P, New York feb’10 – mar’14

**Business Intelligence / Data Engineer**

* Effective member of a small high-energy team gathering and reporting network related statistics on arguably the biggest private network. Awarded ‘Rookie-of-the-Year’, an award for the most enterprising new hire for 2010.
* Collaborated and devised an algorithm for monitoring customer bandwidth utilization patterns and proactively alerting on possible complications and SLA violations. Implemented the same using PERL, PHP and MySQL.
* Developed a dynamic reporting tool to analyze communication circuit’s database using PHP and MySQL.
* Innovated Points of Interests (POI), a skunkworks project that has now taken the driver’s seat for all infrastructure related data reporting. POI integrates data from several departments that manage data centers.
* Developed POI for the Bloomberg terminal utilizing a proprietary multi-language Integrated Development Environment (IDE) comprising base technologies including JavaScript, PERL, SOAP, XML and MySQL.
* Selected to formulate a pricing strategy to assess the operations cost of probable new products/services.
* Evaluated project proposals as a member of the network operations Distillation Committee for business planning.
* Setup a Cloudera Hadoop eco-system to store and manage network traces with extensive analytics using Tableau.

Fidelity Investments, Merrimack, New Hampshire

**Systems Analyst – Intern** jun’09 – aug’09

* Administered a network infrastructure of more than thousand servers handling live market data feeds.
* Configured rule bases for automatic monitoring and alerting systems for real time support.
* Built PERL and VBA scripts to automate the Problem Tracking processes.

**Deepak**

Fidelity Investments, Merrimack, New Hampshire

**Network Analyst – Intern** may’08 – dec’08

* Conducted Network Characterization and Profiling for several applications using OPNET ACE Analyst.
* Performed Response Time Analysis at every tier with the objective to improve the customer experience.
* Modeled and estimated the response time numbers for different server-client locations.
* Simulated the entire organizational network using OPNET Virtual Network Emulator (VNE).

Tata Consultancy Services Limited, Mumbai, India jun’06 - dec’07

**Assistant Systems Engineer**

* Developed and maintained Internet Banking product using Java J2EE.
* Awarded a Certificate of Appreciation for a project developed during the Initial Learning Program (ILP).

Nokia India Ltd. Mumbai, India jun’05 – apr’06

**Technical Intern**

* Implemented ‘In building Solution’ – a micro-cell at Bombay Exhibition Center to improve network capacity and call success rate in joint venture with Nokia India Ltd and Bharti Televentures ‘Airtel’.

**Education**

**Master of Science**, Telecommunication Systems Management, Northeastern University, Boston, MA (**GPA 3.9**)

Coursework: Data Networks, VOIP, Network Security, Advanced Multimedia Networking, Telecom Business Policy, Financial Management for Engineers, Telecom Convergence, and Database Modeling & Management

**Bachelor of Engineering**, Electronics & Telecommunication, Mumbai University, Mumbai, India

Coursework: Internet Communication Engineering, Computer Networks, Mobile Communication Systems, Industrial Economics & Management and Microwave & Fiber Optic Communication

**Skills**

Languages Python, PHP, Perl, Java,

Databases MySQL, MS SQL, Oracle, Cassandra, Vertica

Data Visualization Tableau Desktop & Server, Oracle OBIEE, Sumo Logic, Splunk, AirPal

AWS Ecosystem EC2, S3, Glacier, Kinesis Firehose, Lambda, EMR, etc.

Big Data Ecosystem Hadoop, MapReduce, HDFS, Hive, HBase, Sqoop, Oozie, Presto

**Certifications**

**Cisco Certified Network Associate (CCNA)** 2009

* Worked with Cisco Routers and Switches to install, configure & troubleshoot medium sized networks.
* Simulated VLANs, WANs, RIP / OSPF / EIGRP routing protocols, NAT & Access Lists.

**Cloudera Certified Developer for Apache Hadoop (CCDH)** 2013

* Hadoop Distributed File System (HDFS), algorithms for MapReduce tasks. Hive and Pig rapid app development.