

Abhinav Jha

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Experience

IBM Corporation

Armonk, NY

SOFTWARE ENGINEER - CLOUD COMPUTING

May 2016 – Present

- Delivered end-to-end **Analytics platform** for stakeholders
- Developed Analytics Engine with batch and stream processing powered by **Spark** and **Kafka**
- **Log Enrichment** using Spark Streaming to add business value to the raw logs
- **Template driven summarization** of logs to facilitate on-demand Spark jobs, providing more flexibility to the users to analyze their logs
- Implemented **LogReduce** using Spark to combine similar logs into a single log, resulting in **40%** log reduction saving computing resources for further processing
- Developed Analytics portal to display dashboard, summarization and insights as well as run on-demand Big Data jobs using **Angular2**
- Developed **Analytics API fabric** in Node.js/Express as middleware between Web Portal and the Analytics Engine
- Set up infrastructure/pipeline for developer ecosystem using **Rancher**

Cisco Systems

Bengaluru, India

SOFTWARE ENGINEER - SECURITY TECHNOLOGY GROUP

Aug 2013 – Aug 2015

- Delivered security features for Email Security Appliance(ESA) and Web Security Appliance(WSA)
- Integrated **ThreatGrid**, an on-premise sandbox solution for malware detection for ESA/WSA, becoming the first team to do so in Cisco
- Developed a role-based **Secure Passphrase Generator** for ESA

Skills

Programming Languages: Python, C++, JavaScript/Node.js, Scala, Java

Web Frameworks: Angular, Express, Flask, React

Big Data Stack: Spark, Kafka, Hadoop

Databases/File Systems: MongoDB, Solr, HDFS, MySQL

Containers/Infrastructure: Docker, Rancher, Bluemix, Kubernetes

Operating Systems: Linux/UNIX, CentOS, OSX, Windows

Education

NYU Tandon School of Engineering

Brooklyn, NY

MASTER OF SCIENCE IN CYBER SECURITY

Dec 2016

GPA: 3.9

BITS Pilani

Pilani, India

BACHELOR OF ENGINEERING (HONOURS) IN COMPUTER SCIENCE

May 2013

GPA: 3.6

Academic and Side Projects

Passport-PPH

Node.js

A PASSPORTJS AUTHENTICATION MIDDLEWARE FOR **POLYPASSWORDHASHER(PPH)** SCHEME

github.com/ajaxisme/passport-pph

SearchNZ

C++

A MINI WEB SEARCH ENGINE FOR 40GB OF CRAWLED PAGES FROM .NZ DOMIAN

bitbucket.org/ajaxisme/query_processor

PasswordManager

C++(Crypto Engine), Python(User Interface)

A SECURE PASSWORD MANAGER TO STORE PASSWORDS SECURELY WITH COMMAND-LINE INTERFACE

bitbucket.org/crypto-nyu/passwordmanager

File System Checker

Python

A FILE SYSTEM CHECKER FOR FUSE FILE SYSTEM

bitbucket.org/ajaxisme/file-system-checker

SmartNotes

Flask, jQuery

A SMART NOTE TAKING APPLICATION FOR STUDENTS DURING LECTURES

github.com/ajaxisme/smartnotes