

# ABHINISH POPLI

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## DATA ENGINEER

### QUALIFICATIONS PROFILE

**Innovative, detail-oriented, and results-focused** professional seeking a challenging position to further enhance and utilize skills, knowledge, and abilities honed from hands-on experience in data administration and software development; backed by strong educational background in Master of Computer Science. Knowledgeable of coding SQL, Java, and Python, including software development and data visualization. Armed with solid project management skills; highly capable of accomplishing tasks within fast-paced and critical settings without compromising quality and results.

### AREAS OF EXPERTISE

**Database Administration | Big Data Analytics | Machine Learning | Cloud Computing | Software Engineering | Data Engineering | Java Development**

### RELEVANT EXPERIENCE

Metropolitan Transportation Authority (MTA), New York, NY, USA

#### Data Support Intern (SQL, Python, Tableau)

Sep 2017–Present

- Handling Data collection from several sources including Microsoft Excel sheets, Microsoft Access, and network diagrams; as well as uploading data on the website
- Provide assistance to Networking and Database team regarding modifications essential in incorporating procedures
- Provide support with network monitoring tools which include SolarWinds and WhatsUp Gold

Cognizant Technology Solutions, Chennai, TN, India

#### Programmer Analyst Trainee (MySQL, Amazon Web Services, Redshift)

Nov 2015–Jul 2016

- Evaluated data for customers and developed procedures to achieve set-forth organizational objectives
- Developed queries using MySQL to examine their progress and deposition while handling a complete module for the client
- Worked with Amazon Web Services such as Redshift to developed ETL scripts and enable transfer acceleration in S3 for analyses by reporting team
- **Received fast-track promotion from program analyst trainee to data developer within three months of tenure and earned appraisal from onsite**

Oil and Natural Gas Corporation, Dehradun, UK, India

#### Intern, Computer Department (HTML, CSS, PHP)

Jun 2014–Jul 2014

- Established the Library Automation System for the ONGC Library in collaboration with four team members
- **Significantly enhanced work efficiency by 80% through efforts to reduce paperwork as well as the overall cost in maintaining the library database**

### OTHER EXPERIENCE

New York University, Brooklyn, NY

#### Graduate Assistant

Jan 2017–Present

### EDUCATION

**Master's Degree in Computer Science, In Progress, Expected Completion Date: May 2018 | GPA: 3.54**

**New York University, Brooklyn, NY, USA**

**Relevant Coursework:** *Design & Analysis of Algorithms, Principles of Database System, Big Data Programming, Cloud Computing, Machine Learning*  
Member | Graduate Indian Student Association

**Bachelor's Degree in Computer Science, Jun 2015 | GPA: 82%**

**Jaypee University of Information Technology, Solan, HP, India**

**Relevant Coursework:** *Data Structures, Object Oriented Programming, Principles of Programming Languages, Operating System*

### PROFESSIONAL DEVELOPMENT

**Cloud Computing, 2014 | Amazon Web Services, Bangalore, India**

**Taming Big Data using Apache Spark [Online] | Udemy**

**Java Masterclass [Online] | Udemy**

### AFFILIATION

**Member | Lion's Club (NGO)**

**Coordinator | JUIT Youth Club, University Student Body**

**Publicity Coordinator | TEDxJUIT**

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## ACADEMIC PROJECTS

- Sep 2017–Dec 2017 **Project Title:** iNews  
**Role:** Back-end Developer  
**Objective:** *Development of a mobile application use as news from sources which included CNN and the New York Times and present it to user with or without internet connection.*
  - Utilized Amazon web services, such as Lambda, SQS, SNS and DynamoDB gathering news from source by developing backend of the application
  - Designed an application programming interface (APIs) to collect and seek news from the AWS ElasticSearch
  - Triggered the application by sending push notifications to user at 9AM EST to download the latest news
- Mar 2017–May 2017 **Project Title:** Audit of Twitter Account  
**Role:** Python Developer  
**Objective:** *Implementation of machine learning algorithms in Python to determine if the given Twitter account belongs to a Twitter bot or a human being.*
  - Made use of Twitter REST API in collecting test data from more than 1,000 accounts
  - Assessed the accuracy and precision of the results of Naïve Bayes and Decision Tree
- Mar 2017–May 2017 **Project Title:** Impact of Weather Conditions on Commercial Aviation  
**Role:** Back-end Developer  
**Objective:** *Implementation of Spark SQL to analyze the impact of weather on delays of planes based on historical weather data and visualize the results using Tableau*
  - Assumed accountability in gathering flights dataset from the United States Department of Transportation and weather data from weather underground API
  - Conducted data cleaning and extraction of main columns of interest for evaluation
  - Reviewed data and conceptualized inferences on flight delays which included impact of snow, precipitation, visibility, and wind
- Feb 2017–Mar 2017 **Project Title:** Yelp Data Set Analysis  
**Role:** Back-end Developer  
**Objective:** *Developed scripts in Pig and Spark to analyze Yelp Dataset based on reviews and ratings given by customers, top restaurants based on categories and locations.*
  - Administered queries on Yelp dataset and review per city and category including ratings of business throughout the University of Wisconsin-Madison as well as the top 10 reviewers according to number of posted reviews
  - Managed the installation of Hadoop local environment.
  - Handled port mapping to run the Hue web interface through the local browser by setting up Cloudera QuickStart Container in Docker
  - Directed the creation of visualization on tableau based on gathered data from resulting scripts

## TECHINICAL ACUMEN

<b>Programming Languages</b>	Python, Java, HTML, CSS, C, PHP, C++
<b>Operating Systems</b>	Windows, UNIX
<b>Database Development</b>	SQL, MySQL, Redshift, Hadoop, Apache Spark, Pig Latin, PostgreSQL, Scala, PL/SQL
<b>Other Tools</b>	Eclipse, Network Simulator 2, Informatica, Microsoft Office Suite (MS Access, Excel, and PowerPoint), Tableau, Docker, Kafka, Putty, IntelliJ, Cisco Packet Tracer, Sublime text
<b>Amazon Web Services</b>	Elastic compute cloud, lambda, SQS, SNS, API Gateway, Cloud watch, ElasticSearch, DynamoDB
<b>Software</b>	scikit-learn, APIs, Git

## PUBLICATION

Popli, A., Rathee., G., and Saini, H. (2016). Advanced autonomous network reconfiguration system. *IOSR Journal of Computer Engineering (IOSR-JCE)*. e-ISSN: 2778-0661, p-ISSN: 2278-8727. 6.