

Abhishek Kumar

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akamazing

EDUCATION

2016 – 2018 **University of Nebraska, Omaha**
M.S., Computer Science

2012 – 2016 **IIT, Kharagpur, India**
B.Tech., Computer Science and Engineering

PROFESSIONAL EXPERIENCE

AUG '17 – PRESENT **UNO**
Graduate Assistant

Working on an efficient algorithm to extract information content from modulated radio waves.

AUG '16 – JAN '17 **Infofree.com, Omaha**
Research Assistant

Worked on automating the build processes of database. Reduced the build process time by using external sort on large files in chunks. Prepared and implemented documentation for Infofree API portal.

MAY '15 – JULY 15 **Infofree.com, Omaha**
Software Engineering Intern

Defined standard fields for the customer files from the company's database, and wrote a web service using JAVA that maps a given customer's file to the previously defined standard format. Designed and developed a web service that removes duplicate records from two files based on different match rules using Hadoop clusters.

SKILLS

PROGRAMMING	Java, C, C++, Python, HTML, CSS, JavaScript, MySQL.
FRAMEWORKS	Selenium, TensorFlow, Ember.js, Django.
DEVOPS/INFRA	Firebase, Git, Heroku, Docker, AWS.

ACADEMIC PROJECTS

METAMORPHIC TESTING OF MACHINE LEARNING ALGORITHMS
python, TensorFlow

Testing the popular TensorFlow machine learning implementation using metamorphic relations.

BLOCKCHAIN & CRYPTOCURRENCY
JAVA

Exploring and implementing the blockchain structure and mining strategies.

POIESIS - A CARPOOLING APP
Ember.js, Firebase

A carpooling app for the guardians of middle school students, that will help them take the kids to school safe and on time.

COLORING β -FRUGAL GRAPHS
Python

Implemented a randomized algorithm for the β -frugal coloring of graphs and hypergraphs as well as planar and interval graphs, with the help of asymmetric Lovász Local Lemma.

TRANSPORT COMPANY MANAGEMENT SYSTEM
HTML, PHP, MySQL

Developed an application to support the needs of retailers, manufacturers, distributors, and logistics service providers. The software enables companies to manage customers, bookings, modes of transport, freight payment and billing.

RUNTIME SUMMARIZATION OF TWEETS DURING DISASTER
Python

Implemented a tweet summarization technique to generate online summaries from ranked clusters of tweets, following an abstractive extractive approach.

WSDM CUP
Python, weka

Developed a machine learning model to provide the best static rank values for publication entities in Microsoft Academic Graph.

HOTEL AUTOMATION SOFTWARE
JAVA Swing, MySQL

An application that automates all the operations of a hotel. The software organizes everything from room rates, room availability, booking, and billing to catering services.