

Piyush Chaudhary

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EDUCATION

New York University - Tandon School of Engineering, Brooklyn, New York, USA May 2017

Master of Science in Computer Science, GPA: 3.33

Guru Gobind Singh Indraprastha University, New Delhi, India

Bachelor of Technology in Computer Science, GPA: 3.60 May 2013

PROFESSIONAL EXPERIENCE

Pluvio, Inc. - Backend Developer Intern - Brooklyn, New York June 2016 - August 2016

- Worked on neo4j, a graph database and used py2neo as a Python driver for neo4j.
- Built REST API using Flask framework in Python.
- Implemented a Rank algorithm for the waitlisted users to push their rank in real time.

New York University - Graduate Teaching Assistant (Computer Networks-CS6843) February 2016 – May - 2016

- Responsible for supporting the teaching environment, setting up the online portal for submitting assignments and taking quizzes, grading tests and assignments, assisting students in and outside of the class with their course work.

Accenture – Software Engineering Associate - Bangalore, Karnataka, India December 2013 – May 2015

Software Development - High Volume Transactional System

- Optimized transaction data generated by over 200,000 metro commuters of Canada using Python, SQL and Excel.
- Developed a tool using Python to extract transaction processing devices' state to monitor its health, offered key support to deployment team in the processing of Fare rules engine.
- Identified and fixed bugs in GPS controller's configuration file regarding missing stops on the predefined route in a simulated environment thereby increasing the reliability of the system.

SKILLS

Java, Python, Neo4J(Graph Database), JavaScript, NodeJS, Flask, SQL, AWS, Hadoop MapReduce, Linux.

ACADEMIC/PERSONAL PROJECTS

Scalable TweetMap (NodeJS, Javascript, ElasticSearch, AWS) - <http://goo.gl/lmP8Pb> February 2015 – March 2016

- Developed a scalable web application which fetches trending tweets from Twitter REST API, performs sentimental analysis on those tweets using IBM's Alchemy API and plots them onto google map in real time.
- Used Amazon's SNS and SQS services to streamline the flow of tweets between workers and the web servers.

Auto Spell Checker & Word Suggestions (Java) - <https://goo.gl/yPQpDM> November 2015 - January 2016

- Implemented a modified 'Edit Distance' algorithm for spell check and measured performance of Tries, BST and HashSet data structures for improving the efficiency of this algorithm.
- Highlights misspelled words and suggests closest matching words on the fly as you type.

Shortest Route Finder for Road Networks (Java) - <https://goo.gl/NCFdGU> December 2015 – January 2016

- Implemented and measured performance of BFS, Dijkstra and A* algorithms in Java to find shortest path from one geographic location (Latitude and Longitude) to another on real-world maps by converting maps into intersections.
- The searching process for the destination is visually depicted on google maps as the algorithm runs; out of all three, A* achieved the fastest running time.

GamerDroid - Wireless Game Controller (Android Application) - <https://goo.gl/U3yJyu> Fall 2012

- This App which enables you to play PC using your Android Smartphone by converting it into a wireless gamepad.
- Used Android's built-in Accelerometer API to control the in-game characters and implemented a small java server also to establish a client-server environment between Android device and PC.

LEADERSHIP

Class Representative – Guru Gobind Singh Indraprastha University August 2011 – May 2013

Organized and maintained student information files and communicated important information regarding jobs, seminars, boot camps, and schedules to over 200 students.