# Piyush Chaudhary

20, 446 Senator Street, Brooklyn, NY 11220 || (551) 236-7876 || pc1905@nyu.edu
GitHub: https://github.com/piyush121
LinkedIn: https://www.linkedin.com/in/piyushchaudhary


## 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 — May 2013
Bachelor of Technology in Computer Science — GPA: 3.60

**Relevant Courses:** Algorithms, Data Structures, Cloud Computing, Big Data, Information Visualization, Distributed Systems.

## EXPERIENCE

**Pluvio, Inc. -** Brooklyn, New York — **June 2016 - August 2016**
**Backend Development Intern** — ***(neo4j, Heroku, Flask, Python, REST)***

- Devised the backend service for a dating app using neo4j and deployed the app in Heroku.
- Architected a matching algorithm that resulted in 10-15% growth in percentage matches within connected data.
- Built REST API from scratch using Flask framework in Python and provided interface to the API using Swagger library.
- Implemented a rank algorithm for the waitlisted users to push their rank in real time using Flask SocketIO, resulted in 40% improvement in the latency.
- Designed & implemented Places micro service for the application improving the places search time by 25%.

**Accenture - Software Engineering Associate -** Bangalore, India — **December 2013 - May 2015**
***(Python, MySQL)***

**Software Development - High Volume Transactional System |** Won **'Team Ace award'** for outstanding performance.

- Developed a tool using Python and MySQL to optimize transaction data generated by over 200,000 metro commuters of Canada and monitor the transaction processing devices' state.
- Improved runtime of the Fare processing application by 2% by reducing amount of disk operations.
- Collaborated with deployment team to provide key support in the processing of Fare rules engine.

**Software Quality Assurance – High Volume Transactional System**

- Identified and fixed critical bugs in GPS controller's configuration file regarding missing stops on the predefined route in a simulated environment thereby reduced risk factor of the project by 10%.
- Successfully led a QA Team of 4 resources for a complex data migration project.

## SKILLS

- **Languages & Frameworks**: Java, Python, C++, Hadoop MapReduce, JavaScript, SQL, Flask, Node.js, D3.js
- **Databases**: Neo4J(Graph Database), MySQL, ElasticSearch, mongoDB
- **Tools & Platforms**: Eclipse, AWS, Linux, Git, Heroku

## PROJECTS

**Scalable TweetMap (Node.js, JavaScript, Elastic Search, AWS)** — **March 2016 - April 2016**

- Developed a scalable web application which fetches tweets from Twitter REST API using OAuth on an AWS machine.
- Performs sentimental analysis on those tweets using IBM's Alchemy API and plots onto Google map in real time.

**NYC Weather vs. Taxi data analysis (Python, Big Data, Hadoop, D3.js)** — **March 2016 – May 2016**

- Analyzed the relationship between 2015's weather changes and its impact on the New York City's Taxi fares.
- Pickups and drop-offs, number of pick-ups and drop-offs and trip durations were visualized on a dynamic graph.

**Restaurant Recommendation System (AWS, mongoDB, Node.js)** — **February 2016 – May 2016**

- Built a Web App which recommends restaurants/cuisines based on user preferences using open data from Yelp API.

**Auto Spell Checker & Word Suggestions (Java)** — **November 2015 - December 2015**

- Highlights misspelled words and suggests closest matching words on the fly. Based on `Edit Distance` algorithm.

## ACTIVITIES

- **Moody's University Hackathon (Top 5%) -** Rank 1 in NYU, 137th Worldwide, 24th in USA among 3000 students.
- **Top performer: Capital One challenge** - "Use transaction data to categorize clients" on MindSumo.
- Mentored and oversaw work of 20 students as a **Graduate Teaching Assistant** for Computer Networks course.

## VOLUNTEER

- Active **Blood donor** at Red Cross Society.
- **Volunteer** at NYU CSAW (Hackathon) where students tackle problems in a series of real-world scenarios modeling all sorts of computer security problems.