Piyush Chaudhary

664, 2F, 45th 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 on Heroku.
- 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 a 40% improvement in the latency.
- Designed & implemented Places micro service for the application improving the places search time by 25%.

SportsMedia101 – New York**,** New York   **April 2016 – June 2016**
Software Engineering Intern   (*JavaScript, PHP, MySQL*)
- Implemented a dynamic Filmstrip of news in a timeline on website using JavaScript, CSS, and HTML for a better user experience where the user could slide through all the objects in that strip, add or remove some object to or from the strip.

New York University – New York**,** New York   **January 2016 – May 2016**
Graduate Teaching Assistant
- Mentored and oversaw work of 20 students & graded assignments as a TA for Computer Networks (CS-GY 6843) course.

Accenture - Bangalore, India   **December 2013 - May 2015**
Software Engineering Associate   *(Python, MySQL, TFS, QA)*
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.
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 sentiment 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 peer feedback by fetching information from Yelp API.
- The app assigns a 'Woot' score to every restaurant stored in our mongoDB and recommends the top ones to user.

Shortest Route Finder for Road Networks (**Java**)   **November 2015 - December 2015**
- 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 a real-world map.

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.