Piyush Chaudhary

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EDUCATION

New York University – Tandon School of Engineering, Brooklyn, New York — May 2017
Master of Science in Computer Science — GPA: 3.52

Guru Gobind Singh Indraprastha University, New Delhi, India — May 2013
Bachelor of Technology in Computer Science — GPA: 3.60

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

EXPERIENCE

Pluvio, Inc. - Brooklyn, New York — **June 2016 - August 2016**
Backend Development Intern — ***(Neo4J, Flask, Python, REST, Agile)***

- Devised the backend service for a dating app using Agile development methodology and deployed the app on Heroku.
- Built a python based REST API from scratch using Flask framework and Neo4J graph database.
- Implemented a rank algorithm for the waitlisted users to push their rank in real time using Flask SocketIO, resulted in a 20% improvement in the latency.
- Designed & implemented Places micro service for the application improving the places search time by 15%.

SportsMedia101.com – 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 an improved user experience and worked on backend development for MySQL database driven website.

New York University – New York, New York — **January 2016 – May 2016**
Graduate Teaching Assistant for CS-GY 6843, Computer Networks

- Mentored and oversaw work of 20 students and graded weekly programming assignments.

Accenture - Bangalore, India — **December 2013 - May 2015**
Software Engineering Associate — ***(Python, MySQL, JIRA, 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.
- Designed and executed unit tests and logged the defects using JIRA issue tracking system.

Software Quality Assurance – High Volume Transactional System

- Identified critical bugs in GPS controller's configuration which 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

Consistency Checker for Distributed Systems(Java) — **November 2016 - December 2016**

- Analyzed the trace of concurrent interactions between several client machines and a distributed key-value store to check whether the trace is safe, regular, or atomic in terms of consistency.

Image EXIF data analysis & visualization (D3.js, Python, Big Data, AWS, Hadoop) — **October 2016 – December 2016**

- Analyzed pictures taken from various camera models through interactive graphs to help camera manufacturers understand how their competitors are performing by answering few analytical questions.
- Cleaned 1.4M images' EXIF data and performed MapReduce operations in python using AWS Hadoop cluster.

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.

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.

HACKATHONS

- **Moody's University Hackathon (Top 5%) –** Got Rank 1 in NYU, 137th Worldwide, 24th in USA among 3000 students.
- **Capital One challenge (Top performer)**- "Use transaction data to categorize clients" on MindSumo.