RITIKA GUPTA

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Availability: **Jan – Aug 2020**

EDUCATION

Northeastern University, Boston, MA **–** *Candidate for a Master of Science in Computer Science*   Sep 2018 - Present
Khoury College of Computer and Information and Sciences   Expected graduation: Dec 2020
Coursework: Algorithms, Programming Design Paradigm, Natural Language Processing, Machine Learning.

Malaviya National Institute of Technology, Jaipur, India – *B.Tech in Computer Science and Engineering*   Jul 2012 - Jun 2016
Coursework: Object Oriented Programming, DBMS, Evolving Architectures and Operating Systems.

TECHNICAL SKILLS

Languages:	**Python**, Java, **Reactjs**, JS, Angular2, HTML5, MySQL, Shell Scripting.
ML Libraries:	Sklearn, Keras, TensorFlow, SciPy, NLTK, Stanford CoreNLP
Tools & Frameworks:	Spring Batch, SpringBoot, Bootstrap, AWS, Kinesis, Control M, Hibernate, SSO via AD, REST.
Devops & Agile:	Git, Stash, Docker, Jenkins, Ansible, SonarQube, Maven, Nexus, **Jira**, Confluence, Kanban, Bamboo.
Operating Systems:	Windows, Linux, Unix, Mac.

EXPERIENCE

Tradeweb, New Jersey, USA   June 2019– Present
- Building a **React** application to retrieve Market feeds and client data from MySQL and **Redis** databases. In order to provide monitoring and analyzing capabilities to internal team.
- Part of **docker** onboarding team for Tradeweb direct; currently embedding 5 applications it into the existing pipeline.
- Working on a proof of concept of **AWS Kinesis** and **Kafka** to compute on streaming data from clients.

HSBC Technology, Pune, India   Jul 2016 - Jun 2018
Software Engineer
- Developed a surveillance application to monitor Cancels and Amends 18 trading systems globally in sprints employing **Core Java**, JS, spring and Shell scripting; received **STAR performer** for outperforming in daily jobs.
- Revamped existing monolithic architecture to a **container-ready architecture** using **microservices** in Java (spring boot), to remove dependencies in code base.
- Created **full stack application** by using **REST API** calls (Java 8) to fetch release data from Oracle SQL database and designed user **interactive analytics dashboard** in **Angular** 4 to summarize/compare 9 key performance metrics for all projects.
- Built in-house electronic communication surveillance product using **Python** to **flag risky attachments** in mail into different categories; for text classification from email attachments images and pdfs.

ARTSTREAK (Social Entrepreneurship), Jaipur, India   Aug 2014 - Feb 2015
Co-Founder & CTO
- Built, launched and maintained website in team of 2 for over a year using **HTML5, CSS and JS** which hosted 32 artist portfolios helping them advertise their skill to source funding.

ACADEMIC PROJECTS

Keyword Spotting System, Northeastern University, Boston   Feb 2019 - April 2019
- Predicted the 'wake word' from a Speech Command Dataset of audio clips. Benchmarked two approaches; MFCC features v/s spectrogram images of the audio clips.
- Implemented a 6-layer CNN with transfer learning using Inception-ResNet using **Python** and **Keras** for each feature respectively.

Movie Reviews Analysis, Northeastern University, Boston   Jan 2019 – Feb 2019
- Built Multilayer perceptron algorithm in **Python** with word embeddings (count vector and word2vec) and trigram, POS features to predict positive/negative sentiment of the reviews and tag them.

Stock Market Application, Northeastern University, Boston   Oct 2018 – Dec 2018
- Created a user interactive mock stock market platform in **Java** and **Swing** to allow users to learn stock market trading with virtual money and real-time transaction data fetch by **Alphavantage** API. Users can create a portfolio, buy shares, create and implement strategies to a portfolio, determine their total cost basis and value over a period.

ACADEMIC LEADERSHIP

- Teaching Assistant for Introduction to Web Development for Professor Ghita.   Jan 2019 – April 2019
- Web Chair, **Northeastern Graduate Woman Coder** Club – Boston.   Sept 2018 - Present
- Founder of Student Mentorship Program at - MNIT Jaipur.   Oct 2014