Rajeev Joshi

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EDUCATION

New York University, New York USA	May 2019
Master of Science in Computer Science	GPA: 3.77/4.0
Academic Achievement Award	Nov 2018

- **Teaching Assistant** for Introduction to Operating Systems CS-GY 6233.   Fall 2018, Spring 2019
- **Teaching Assistant** for Information Security and Privacy CS-GY 6813.   Fall 2018

Maharaja Agrasen Institute of Technology, Delhi India	Jul 2017
Bachelor of Technology in Computer Science & Engineering	GPA: 69.37/100

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, C, SQL, HTML, CSS, PHP, Bash Scripting.
Softwares/Tools: CodeIgniter, Web2py, OpenCV, Git, Docker, Hadoop, Jira, Selenium, LaTeX, Android Studio.
Big Data: Spark, Pig-latin, Hadoop, Map-Reduce, HDFS, Scala, Hive.

EXPERIENCE

Data engineer , Intellinum Analytics Inc., New York, NY   May 2019 – Present
- Data processing , analysis , integration and transformation using various Big Data Tools such as Apache spark
- Developed strategies backed by time series analysis and insights gathered from domain specific data to filter out bot traffic in the RTB(Real-time Bidding) bids stream data.
- Develop Spark programs using Python API (PySpark) and Spark-SQL to import data from S3 into Spark Dataframes to perform transformations and actions on data in various file formats - JSON, Parquet, CSV.
- Working on the probabilistic cross-device identity graph (based on browser cookies, IP and mobile device IDs).
- *Technologies*: Spark, YARN, S3, Delta Lake, Jupyter/Zeppelin, AWS EMR, Kafka.

Software Intern (R&D), BotFactory Inc, New York City, USA   Jun – Aug 2018
- Developed computer vision algorithms using OpenCV to improve the accuracy of the Pick-n-Place Head.
- Designed (UX/UI) a critical wepage for a new feature implementation in the next version of the product.
- Migrated Instruction set of hardware abstraction layer for the previous model to the latest software architecture.
- *Technologies*: Web2py, OpenCV, Git, Linux, JavaScript, Jira.

ACADEMIC PROJECTS

CodeJudger   Feb 2019
- An In-house tool for professors to allow real-time in class coding test for students. ⌥
- Developed using the DevOps/Agile methodology of Continuous Integration/ Continuous Deployment.⌥
- *Technologies:* Docker-compose, Travis CI, CodeIgniter PHP framework, Github.

Protein Residue Distance Matrix Prediction ⌥   Sep 2018
- Given the primary and secondary structure of a protein sequence, we created a deep neural network model to predict the distance matrix containing the distances between each residue within the given protein sequence.
- *Technologies:* Keras, pandas, numpy, Jupyter Notebook.

Computer Vision Projects   Aug 2018
- Human Detector - A 2-layer Perceptron that uses an HOG vector to find Humans in a 2D color picture.⌥
- Canny Edge Detector - Implementattion of a Canny Edge Detector including all four steps i.e. Gaussian Smoothing, Gradient operation, Non-Maxima suppression and Thresholding.⌥
- *Technologies:* Python.

NutriMeter ⌥   Aug 2018
- A Cloud based WebApp to help users track their calorie intake along with several other nutrients.
- Each user gets their own personalized food and recipe suggestions based on their dietary restrictions.
- Users can also interact with a chat bot to ask for various recipes and places nearby for a particular cuisine.
- *Technologies:* AWS - API Gateway, Lambda, Rekognition, Cognito, SES, SNS, Lex, S3 & DynamoDB, Python.

Rating Movies and Predicting Movie Ratings ⌥   May 2018
- Designed a model to rate movies based on IMDB ratings and user tweets by doing Twitter Sentiment Analysis.
- Built a model to accurately predict movie ratings based on several key features using IMDB dataset.
- *Technologies*: Spark, Twitter API, Google Cloud, Text Blob, Zeppelin, Jupyter, Python, HTML, CSS, JavaScript.

EXTRA CURRICULAR

- Demoed at Capgemini - Social Good Hackathon, HackNY Spring 2018, HackNY Fall 2018 and HackNYU 2018.
- NYU 2018 Commencement Volunteer.