Rajeev Joshi

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EDUCATION

New York University, New York USA May 2019
Master of Science in Computer Science GPA: 3.781/4.0
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: 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
• Developed numerous jobs, libraries, services, and utilities to facilitate the extraction, validation, transformation, and loading of RTB bids stream data from the parquet data lake on s3.
• Working on the real-time weighted attribution pipeline for ad-impression with AWS Kinesis / Spark Structured Streaming / Delta Lake.
• Working on the probabilistic cross-device identity graph (based on browser cookies, IP and mobile device IDs).
• *Technologies*: Spark, Mesos, S3, Delta Lake, Jupyter/Zeppelin, AWS EMR, Kinesis.

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.