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

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.

Summer Intern, Miracle Technologies, Noida, India Jul – Aug 2016
- Developed unit and integration tests to verify and validate proper functioning of various modules.
- Wrote various automation scripts to verify and document cross browser support for the application.
- *Technologies*: Selenium WebDriver, Firebug, Eclipse.

Software Development Intern, Netcomm Enterprises, Delhi, India Jul – Aug 2015
- Worked as a software developer on an ongoing project - Medical Store Database Management System.
- Implemented features like user authentication, an admin service and different ways to handle medicine records.
- *Technologies*: Java, MySQL, NetBeans.

ACADEMIC PROJECTS

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.

Pill Detect (Social Good Hackathon - Capgemini) Aug 2018
- Aimed to educate people about the medication pill, in-case of lost prescription or torn off bottle label.
- Designed a user-friendly WebApp to capture the image of a pill and get the name and other relevant information.
- Employed AWS API for imprint extraction and OpenCV to get the shape and color of the pill from the image.
- *Technologies:* AWS Rekognition API & S3-Bucket, Flask, OpenCV, Pandas, Python, Spark, JavaScript.

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.

Feed A Homeless (HackNYU - Hackaton 2018) Mar 2018
- Developed a web based application to seamlessly locate homeless people in your proximity on Google maps.
- Implemented a user friendly two click mechanism to mark location of homeless people onto the map.
- *Technologies*: Google Cloud SQL, Google App Engine, HTML5, CSS3, JavaScript, PHP.

EXTRA CURRICULAR

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