Sneha Arkery

✉ sa4211@nyu.edu   ☎ +1-929-370-6766   🌏 https://www.linkedin.com/in/sneha-arkery-b3b11088/

EDUCATION

New York University, Tandon School of Engineering	Sep 2016–May 2018 *(expected)*
Master of Science in Computer Science	GPA: 3.85/4.0
Manipal University, Manipal Institute of Technology, India	Jul 2011–May 2015
Bachelor of Technology in Computer Science	GPA: 7.88/10.0

PROFESSIONAL EXPERIENCE

Software Engineering Intern, Millennium Management LLC, *New York*   Jun 2017–Aug 2017
- Refactored the volatility data flow for fixed income technology using MongoDB and Java Spring framework.
- Developed a Data Migration tool to migrate data from existing SQL or MongoDB to new MongoDB using Java Spring framework.

Graduate Teaching Assistant, Computer Science, *NYU*   Jan 2017–Present
- TA for CS 9223 - Big Data Programming
- TA for CS 6233 - Operating Systems

Software Developer, Deloitte Consulting, *Hyderabad, India*   Aug 2015–Aug 2016
- Developed a Database UI web application using .Net, MVC framework and Java Script.
- Designed a new user interface for Data Migration tool(Workday Hoover) to launch its component tools on single click using .Net
- Received a special mention from Director for this new interface as it expedited the data migration to Workday servers.

Software Developer Intern, Deloitte Consulting, *Hyderabad, India*   Jan 2015–Aug 2015
- Contributed to feature enhancement of application which determines the eligibility of an individual for the Government aided programs(SNAP, TANF, etc) using Java.
- Developed interfaces to interact with the third party agencies (like IRS, MMIS etc) using Java, JavaScript and JQuery.

RELEVANT PROJECTS

Stocks Data Analysis   Feb 2017–May 2017
- Analyzed a company's performance and determined its correlation with stock prices in a certain period.
- Determined sentiments for a company by applying Stanford CoreNLP sentiment prediction on Twitter Spark streaming data and anlyzed it's influence on stock prices.
- Built a prediction model using linear regression to predict future stock price variations using SparkML.
- Plotted visualizations for stocks data correlations on an interactive dashboard built using Python Django.
- *Technologies*: Apache Spark, SparkML, SparkSQL, Python, Python Django, Zeppelin, Java.

Bartex - Cloud Computing Project   March 2017–May 2017
- Developed a Barter application and hosted it using AWS Elastic Beanstalk that could be accessed to exchange products.
- Added a product price prediction feature to the application using AWS ML Regression module by considering few factors like purchase history, brand that determined a product's price range.
- *Technologies*: Django Python, SQL, HTML, CSS, AWS Services: RDS, SQS, SNS, Machine Learning.

Trending Tweets   Jan 2017–March 2017
- Designed and developed an application which takes a keyword and searches the trending tweets based on it from Twitter streaming API and plots the tweet location along with its sentiment on google maps.
- *Technologies*: Alchemy API - sentiment analysis, AWS Services: Elastic Search, Elastic BeanStalk, SQS, SNS.

Eat Easy   Jan 2017–May 2017
- Developed an Android application that could be used to check if a food product is within dietary restrictions.
- Implemented a scanner to scan a barcode of a packaged food and list its ingredients.
- *Technologies*: React Native, Android, Java Script

RESEARCH EXPERIENCE

Classical and Blind Quantum Computation   Sep 2013–Nov 2013
- Presented a paper at the National technical fest of Manipal Institute of Technology on comparison between Blind Quantum computation and homomorphic encryption (Cryptography).
- Some modifications were done to the Efficient Secure Two Party protocol to ease the computation taking into the consideration the cost and time complexity and accordingly the checks for correctness and consistency were done.

TECHNICAL SKILLS

Programming Languages: Python, Java, Spring Framework, MongoDB, Pig, C/C++, C#, .Net, SQL, Javascript, JQuery, HTML, CSS
Familiar with: Apache Spark, Scala, R, Kafka, Tableau, Zeppelin, ReactJS, PHP, XML
Big Data Tools: Spark, Hadoop, MapReduce, Kafka, Elasticsearch, AWS, Docker
Courses: Big Data programming, Cloud Computing, Algorithms, Data Mining, Machine Learning, Information Visualization

AWARDS AND ADDITIONAL INFORMATION

- **Applause Award** for outstanding performance and timely delivery as a Business Technology Analyst at Deloitte.   2015
- **Spot Award** for exhibiting outstanding performance as an **Intern** at **Deloitte**.   2015
- **Co-founder** of TALK IT OUT an open discussion forum of Manipal Institute of Technology.   2013