VIKAS SHENOY

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Education:

University of Connecticut
Master of Science in Computer Science May 2018

PES University
Bachelor of Engineering in Computer Science June 2016

Technical Skills:

- Python (+ Flask)
- Spark (PySpark on AWS EMR)
- Amazon Web Services
- C/C++
- HTML/CSS/JavaScript
- MySQL (AWS RDS)
- Presto (AWS Athena)
- Redis
- Docker
- Git/Version Control
- Linux Bash

Technical Engineering Coursework:

Data Structures, Object Oriented Programming, Advanced Computer Algorithms, Unix System Programming, Programming the Web, Database Management Systems, Big Data Analytics with Hadoop, Financial Data Mining, Machine Learning, Cloud Computing, Probabilistic Graphical Models, Advanced Computer Networks, Advanced Computer Architectures

Professional and Leadership Experience:

Aberdeen Group LLC January' 19 - Present
Software Engineer

- Currently a Senior Engineer, playing a major role in the recruitment of other Software Engineers and Data Analysts.
- Lead the development and implementation of the Intent Scoring Algorithm by processing Intent Data (using PySpark on AWS EMR) to formulate Intent Qualified Opportunities to determine which companies are in-market to buy thousands of solutions.
- Developed the IP Intelligence system (using Python, Redis on AWS ElastiCache, AWS CodeBuid) to serve a real-time bidding DSP using firmographics, intent and geo-location data. Also designed an internal reports system (using PySpark, Python, AWS Athena) to analyze and improve the performance of DSP Campaigns. This improved the bidding accuracy by 40%.
- Architected an Outbound Data Delivery System (using Python, AWS API Gateway + Lambda, AWS SQS) with 6+ connectors to streamline the automation of loading processed B2B Intent Qualified Opportunity Data into customer AWS S3 buckets, SFTP servers, Salesforce (using Salesforce REST API), automate Power BI Dashboard load/refresh (using Microsoft Power BI REST API).
- Developed 20+ tools/services for simplifying various in-house processes, and housed the services in a Flask based Internal Portal.
- Working closely with the Data Analytics team on several R&D/Machine Learning Projects (PyTorch, TensorFlow, Scikit-Learn).
- Designed and architected several cost-effective systems using AWS Infrastructure.

The Big Willow Inc. (Acquired by Aberdeen Group LLC) July' 18 – December' 18
Software Engineer

- Played a pivotal role in the acquisition of *The Big Willow Inc.* by *Aberdeen Group LLC*.
- Designed and developed the Intent Analytics ETL Engine (using PySpark on AWS EMR and Apache Hadoop) which processes about 3 billion daily web interactions, and is a major cash cow for the company, serving as a backbone for several products.
- Re-architected Batch Processing and Report Generation infrastructure by migrating to AWS, and using more efficient algorithms. This improved the run-time by 60%.
- Rewrote several legacy Perl applications in Python; applied multiprocessing to existing Python Pandas scripts using concurrent.futures and Dask. This improved the efficiency by 30%.
- Developed shell scripts for automation of routine jobs: scheduling tasks and automation of deploying build changes with Cron Jobs, bootstrap EC2 instances using Linux AMI; launching, bootstrapping and running necessary steps for EMR clusters, publish metrics to AWS CloudWatch, monitoring and controlling other AWS services using AWS CLI.

University of Connecticut – Department of Physics July '16 – May' 18
Graduate Teaching Assistant for 'Mechanics - Physics 1501 and Electricity – Physics 1202'

- Excellence in Teaching Award 4 times in a row (Fall 2016, 2017 and Spring 2017, 2018).
- Supervise and plan undergraduate laboratory experience for Physics 1501 and 1202 courses.
- Assist faculty with classroom instruction material, grading exams, guide the development and training of new Teaching Assistants.

University of Connecticut – Office of the Vice-President for Research July' 17 - Aug' 17
Software Engineering Intern

- Frontend professional design using HTML and CSS Technology to redesign UConn's Environmental Health and Safety Website.
- Built Home Page, Contact Page, Registration Form; underwent advanced training on Meta Slider, Page Builder, iFrames, Wt4 C++.

University of Connecticut – College of Agriculture and Natural Resources May '17 – June '17
Student Researcher

- Worked on a Geospatial Technologies Project in Partnership with Eversource Energy
- Used Eversource's data set to manually map utility poles using LiDAR, aerial 3D imagery, ArcGIS, ArcObjects C++.