JESSICA CLAIRE

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PROFESSIONAL SUMMARY

Complex problem-solver with analytical and driven mindset. Dedicated to achieving demanding development objectives according to tight schedules while producing impeccable code.

SKILLS

- **TECHNICAL SKILLS**
- Programming Languages :Python, C, SQL
- Parallel & Computing : AWS,IBM Watson Studio
- Data Visualization : Python (Matplotlib, Seaborn), R (ggplot)

- Machine Learning: Clustering(K-Means/Hierarchical),Regression Analysis,Text Mining & Unstructured-Data Analytics.
- Applications / Tools : Git, MS Office, Jupyter Notebook, PyCharm,Visual Studio
- Data Science Libraries : PySpark, Scikit-Learn, NumPy, Pandas, SciPy, NLTK, PyTorch, Keras, Tensorflow, Gensim, spaCy
- Amazon Web Services : EC2, S3, IAM, VPC, RDS, DynamoDB, SNS, SQS, Elastic Load Balancer, Lambda, SageMaker,AWS RDS,Glue,Athena,Lambda,Amazon Comprehend

WORK HISTORY

Software Python Developer, 01/2019 - Current
Factset Research Systems Inc. – Youngstown, OH
Consumer Reports

- Determined, using Python clustering methods, groups of states where underwriting models were underperforming, and owned improvements to increase profit by 4%
- Identified procedural areas of improvement through customer data to help improve the profitability of a nationwide retention program by 8%
- Developed and owned the reporting for a nationwide retention program using Python, SQL, and Excel, saving an average of 60 hours of labor each month
- Led data extraction and evaluation
- Partnered with product team to build a production recommendation engine in Python that improved the average length on page for users and resulted in incremental annual revenue

Software Engineer, 01/2018 - 07/2018
Factset Research Systems Inc. – Jackson, WY

- Responsible for architecting, designing, implementing and supporting of cloud based infrastructure and its solutions.
- Managing Amazon Web Services (AWS) infrastructure
- Proficient in AWS services like VPC, EC2, S3, ELB, AutoScalingGroups(ASG), EBS, RDS, IAM, CloudFormation, Route 53, CloudWatch, CloudFront, CloudTrail.
- Experienced in creating multiple VPC's and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.
- Created NAT gateways and instances to allow communication from the private instances to the internet .
- Involved in writing API for Amazon Lambda to manage some of the AWS services.
- Used security groups, network ACL's, internet gateways and route tables to ensure a secure zone for organization in AWS public cloud.
- Created and configured elastic load balancers and auto scaling groups to distribute the traffic and to have a cost efficient, fault tolerant and highly available environment.
- Created S3 buckets in the AWS environment to store files, sometimes which are required to serve static content for a web application.
- Used AWS Beanstalk for deploying and scaling web applications and services .
- Configured S3 buckets with various life cycle policies to archive the infrequently accessed data to storage classes based on requirement.
- Possess good knowledge in creating and launching EC2 instances using AMI's of Linux, and wrote shell scripts to bootstrap instance.
- Used IAM for creating roles, users, groups and also implemented MFA to provide additional security to AWS account and its resources.
- Written cloud formation templates in json to create custom VPC, subnets, NAT to ensure successful deployment of web applications.
- Implemented domain name service (DNS) through route 53 to have highly available and scalable applications.
- Maintained the monitoring and alerting of production and corporate servers using Cloud Watch service.
- Created EBS volumes for storing application files for use with EC2 instances whenever they are mounted to them.
- Experienced in creating RDS instances to serve data through servers for responding to requests.
- Created snapshots to take backups of the volumes and also images to store launch configurations of the EC2 instances.
- Written Templates for AWS infrastructure as a code to build staging and production environment.
- Responsible for Continuous Integration and Continuous Delivery process implementation with Python and Shell scripts to automate routine jobs.
- Responsible for performing tasks like Branching, Tagging, and Release Activities on Version Control Tools like GIT.

Software Engineer, 03/2012 - 11/2014
Dell Wyse – City, STATE

- Collaborated with Web Application Engineers, used Python scripts to load the data into AWS Cloud Cassandra database
- Visualised over 40 datasets with Matplotlib
- Involved in processing the streaming data as well as batch data
- Developed internal tools for text mining (sentimental analysis), and web crawler for collecting data by Python and SQL
- Used AWS Elastic Beanstalk service for deploying and scaling web applications and services developed with Python
- Developed shell scripting and Python programs to automate the data flow on day-to-day tasks
- Analyzed the SQL scripts and designed the solution to Developed a custom ETL pipeline by using Python

EDUCATION

Bachelor of Science: Computer Science And Information Technology, 05/2011
G.Pullareddy Engineering College - Kurnool

CERTIFICATIONS

- IBM Data Science Professional Certificate
- Semantic Segmentation with Amazon SageMaker
- Mastering Data Analysis with Pandas
- Introduction to Statistics from Stanford