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

- **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 as Freelancer, 01/2019 - 03/2021
Grow Therapy – City, STATE

- 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
Grow Therapy – City, State

- 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

- Coordinated statistical data analysis, design and information flow.
- Designed and developed schema data models.
- Produced monthly reports that made understanding of **insights** easier through the use of **visualizations**
- Transformed the data to prepare it for modeling
- Analyzed the member data to find trends that showed what type of institutions want what kind of product
- Developed database objects such as tables
- 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

Certifications:

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

Bachelors of Computer Science: Computer Science And Information Technology, 05/2011
G.PullaReddy Engineering College - Kurnool,Andhra Pradesh
Certifications:

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