**Zeeshan R**

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**Work Authorization:** US Citizen

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**SUMMARY:**

* 11 years of experience as a Lead Python Developer, possessing profound expertise in object-oriented programming principles, data structures, and algorithms. Notable track record of delivering exceptional software solutions exceeding client expectations. Known for collaborative leadership and exceptional communication skills, committed to continuous skill enhancement and staying updated with cutting-edge technologies.
* Expertise in AWS includes hands-on experience with EC2, Flask, IAM, Kafka, NLP, Tableau, terraform, EBS CloudWatch, AWS Config, AWS S3, SNS, SQS, AWS Glue, AWS SAM CLI, and PySpark for intricate data transformations. Proficient usage of SQL for querying databases and implementing stored procedures, functions, packages, tables, views, and triggers.
* Implementation of Python involves utilizing various libraries, including matplotlib for creating charts and graphs, MySQL db for database connectivity, and a range of libraries such as python-twitter, AG GRID, Pisidia, Pickle, Pandas data frame, network, and urllib2 to enhance functionality.
* Proficient use of Python and golang libraries extends to BeautifulSoup, NumPy, SciPy, apache airflow, databricks, react js, Snowflakes, Microservices, matplotlib, Python-twitter, Network, urllib2, chef, docker, AEP, Perl, D3, Camunda, and MySQL dB for database connectivity. The development environment includes familiar IDEs like Sublime Text, Spyder, NodeJS, and PyCharm.
* Developed Google Cloud Functions (GCP) for serverless computing, leading the development of Python-based serverless applications engineered for autonomous scaling and dynamic response to fluctuating demand, ensuring optimal efficiency and resource utilization on the Google Cloud Platform.
* Expertise in Software Configuration Management (SCM), Next Gen, Apache Airflow, and Microservices principles and best practices, integrated into DevOps methodologies. Knowledge spans Agile and Waterfall methodologies, signifying a holistic understanding of diverse software development approaches.
* Experience in UNIX and Linux shell environments includes adept use of command line utilities, demonstrating comprehensive understanding and utilization in the development process.
* Demonstrated expertise in Unit Testing/Test Driven Development (TDD), Python Dash, Pyspark, Dynamo DB, Camunda, Load Testing, and Integration Testing, ensuring the reliability and performance of applications.
* Proficient use of version control systems, FastAPI, including CVS, SVN, ETL, terraform, angular js, and Git/GitHub, complemented by effective utilization of issue-tracking tools such as Jira and Bugzilla, Tableau, highlighting a systematic approach to project management.
* In-depth knowledge of Python ORM Libraries like Django ORM and SQL Alchemy demonstrated through practical applications in building robust and efficient database interactions.
* Experience in implementing server-side technologies includes expertise in restful API, AEP, Next Gen, Dynamo DB, and MVC design patterns, utilizing both Node.js and the Django framework.
* Experience with AWS Resources such as EC2, S3, AWS SAM CLI, SNS, SQS, EBS, ansible, Flask, VPC, ELB, SNS, SQS, AG GRID, databricks, Snowflakes, RDS, IAM, Auto scaling, Cloud Formation, Cloud Watch, Lambda, and Security Groups, showcasing a comprehensive understanding of cloud infrastructure.
* Expertise in utilizing various Python libraries, including Beautiful Soup, CloudWatch, Python Dash, NumPy, Perl, React JS, matplotlib, SciPy, ETL, PyQt, DevOps, and SQL Alchemy, demonstrates versatile and in-depth knowledge of the Python and Golang ecosystem.
* Experience with deployed tools like Jenkins, Docker, ansible, and OpenShift for Continuous Integration and deployment for Microservices, indicating a commitment to modern DevOps practices.
* Extensive experience with Application Servers like WebSphere, WebLogic, and Tomcat, as well as Web Servers like Apache airflow server, and Integrated Development Environments such as PyCharm, chef, NodeJS, Eclipse, Perl, D3, MyEclipse, and JDeveloper, reflecting versatile skill set.
* Experience in deploying and managing containerized applications using Kotlin, databricks, octopus, Alation, Jenkins, and Kubernetes on GCP and Google Private Cloud (GPC), showcasing breadth of experience with cloud platforms.
* Extensive usage of Azure Data Factory and Synapse Analytics for Big Query optimization and maintenance, reflecting commitment to optimizing data processing workflows within the cloud platform.
* Experience in working with various databases, including MongoDB, DynamoDB, Pyspark, TimescaleDB, and Puppet using git, my studio agile, and notebook, demonstrates a comprehensive understanding of database management.
* Experience with ArcGIS extensions such as Spatial Analyst, 3D Analyst, FastAPI, Dynamo DB, Angular JS, Snowflakes, and Network Analyst, showcasing expertise in geospatial analysis.
* Expertise in machine learning data analysis, data visualization, and data manipulation using various geospatial libraries in Golang and Python gRPC, such as GeoPandas, Shapely, NLP, Fiona, PySAL, Flask, apache airflow, CartoPy, AEP, Kubeflow, Camunda, .NET, Matplotlib, Bokeh, etc., highlights specialized skill set in data science and geospatial analytics.
* Experience and demonstrated prowess in crafting and executing the DevOps strategy for organizations operating in a mixed environment of Linux servers, encompassing both Red Hat Enterprise Linux (RHEL) and Ubuntu distributions. Additionally, showcased a knack for devising and implementing cloud strategies, with a particular focus on the capabilities of Amazon Web Services (AWS). This includes not only a strategic alignment with the Linux ecosystem but also a comprehensive cloud approach that caters to the unique demands of the organization's infrastructure.
* Experience in working with various Python IDEs using PyCharm, octopus, Alation, React JS, terraform, BOTO 3, MongoDB, PyScripter, Spyder, Kafka, databricks, PyStudio, NodeJS, Route 53, docker, D3, CloudWatch, Next Gen, Tableau, PyDev reflects adaptability and proficiency in different development environments.
* Integrated Google Cloud Data Pro for advanced big data processing, harnessing the power of Python and Golang for data analysis, machine learning, and artificial intelligence, significantly contributing to the organization's data-driven decision-making capabilities and analytical prowess on GCP.
* Experience in working with Azure Container Registry and Kubernetes Service (AKS) for creating container images deployed on microservices, showcasing expertise in containerization within the environment.
* Expertise in the HTTP protocol for communication between web servers and web clients, including troubleshooting network issues using TCP/IP utilities such as ping, reflects comprehensive understanding of networking protocols and troubleshooting methodologies.

**WORK EXPERIENCE**

**LEAD PYTHON DEVELOPER**

**UNITED HEALTH GROUP,** **TAMPA, FL**

**DECEMBER 2021 –PRESENT**

**RESPONSIBILITIES:**

* Led comprehensive software development endeavors, overseeing analysis, specification, design, implementation, and testing phases within the Software Development Life Cycle (SDLC). Applied Agile methodology systematically throughout the development process to ensure adaptability and responsiveness.
* Implemented version control strategies for BPMN processes, utilizing tools like Git to track changes and maintain a reliable history of process modifications.
* Implemented and managed EC2 instances for computing and extensively worked with ECS (Elastic Container Service) to manage deployment, scaling, monitoring, and management of containerized applications through both API and the AWS Management Console.
* Implemented and refined security measures and access controls within Snowflakes, Python Dash, Next Gen, D3, aligning with industry standards to ensure data privacy and compliance.
* Designed and intricately developed resilient RESTful APIs in Python, terraform, and angular JS, AEP, Tableau, AWS SAM CLI, Camunda, utilizing frameworks such as Flask and Django for seamless communication between services in a distributed GCP environment. Adhered to the highest standards of reliability and scalability.
* Designed, developed, and created a Docker container for a comprehensive DevOps website, integrating data from various tools. Employed Kubernetes as the orchestration platform and utilized JSON for effective data representation.
* Implemented Regression testing methodologies, systematically identifying and resolving bugs arising from changes in software functionality. Ensured smooth transitions from old functionality to new features, maintaining the integrity and reliability of the software.
* Delved into the intricacies of MVC/MVT architecture, employing Django, ansible, Route 53, AG GRID, Perl, Pyspark, Dynamo DB, Microservices, react JS, Kafka, apache airflow, NLP, RESTful, Snowflakes, Chef, Soap web service, and SoapUI. This meticulous approach underscored a commitment to structured and scalable development practices.
* Executed AWS high availability strategies, on AWS Elastic Load Balancing (ELB) to evenly distribute workloads across instances, enhancing system reliability and performance.
* Spearheaded the development of a high-performance API using FastAPI, CloudWatch, and NodeJS, Camunda, streamlining the initiation of internal processes and significantly enhancing automation and operational efficiency.
* Developing and implementing DevOps SRE (Site Reliability Engineering) solutions, particularly for large-scale distributed web applications across multiple tiers and data centers. Addressed challenges related to reliability, scalability, and performance.
* Played a pivotal role in developing the DevOps process planning, emphasizing a strategic and organized approach to aligning development, testing, and deployment practices. This involved creating roadmaps and frameworks for effective collaboration between development and operations teams.
* Developed a Remote Monitoring and Management (RMM) application with Python, Python Dash, Jenkins, MongoDB, ETL, AWS SAM CLI, Django, Microservices, and Flask (with Gunicorn), facilitating seamless monitoring and management of remote servers. Deployment on Google Cloud Platform (GCP) showcased versatility in cloud environments. Developed and implemented ElasticSearch indices, optimizing mappings for efficient storage and retrieval of diverse data types.
* Designed and implemented BPMN 2.0 compliant process models using Camunda, D3, ensuring alignment with industry standards and best practices.
* Developed Sqoop scripts to handle change data capture, efficiently managing incremental records between newly arrived and existing data in relational database management system (RDBMS) tables.
* Designed front-end using UI, HTML, Snowflakes, Bootstrap, MongoDB, ansible, Python Dash, CSS, NODE JS, AG GRID, Graph QL, redshift, power BI, and JavaScript, demonstrating strong expertise in server-side technologies, including databases, RESTful API, apache airflow, terraform, angular JS, and MVC design patterns. Designed and maintained Elasticsearch clusters with a focus on optimizing resource allocation, dynamic scaling, and resilience against node failures.
* Developed policy and Financial modules for a .NET 4 Web-based application. Spanning the User Interface, business logic, and data access layers, utilized ASP.NET, NLP, databricks, C, Dynamo DB, Tableau, Perl, C#, SQL Server 2008, and Visual Studio 2010.
* Developed and maintained a suite of DevOps-related tools, including provisioning scripts, deployment tools, and dedicated environments on AWS and Cloud platforms. Ensured a robust and streamlined development pipeline for the team.
* Designed and utilized Python and golang scripts with Boto3 to programmatically access and modify AWS resources, including operations such as starting, stopping, and restarting EC2 instances, retrieving S3 object information, and invoking Lambda functions from web applications.
* Developed web pages using Protocols BLE, AWS SAM CLI, QT, react JS, Microservices, Node.js, Kafka, and Snowflakes, integrating various tools such as GitHub, Jenkins, Kubernetes, Jira, Angular, FastAPI, Flask, Route 53, Kafka, docker, Pyspark, DevOps, and CI/CD pipelines. Ensured a technologically diverse yet seamlessly integrated web development process.
* Designed and implemented complex SnowSQL and Kafka procedures for data transformation, strategically on strengths inherent in Snowflakes's architecture, ensuring efficient integration tasks, enhancing overall agility and effectiveness of data processing workflows.
* Developed AWS Lambda functions in multiple languages, including Python, Node.js, Dynamo DB, AEP, ETL, Camunda, and Java, tailored for diverse use cases ranging from intricate data processing tasks to efficient file handling and seamless automation processes, showcasing versatile and proficient serverless computing approach.
* Developed intricate networking solutions on Google Cloud Platform (GCP), ansible, and NodeJS, configuring Virtual Private Clouds (VPCs), VPNs, and Cloud Load Balancing meticulously, aiming to optimize application performance and fortify overall security posture of cloud infrastructure.
* Designed and meticulously developed engaging user interfaces and client displays, Python Dash, employing JavaScript and CSS3 for visually appealing and interactive elements. Proficiently troubleshooted various issues in Python and golang code, applying code enhancements for optimal functionality. Actively contributed to UI design using HTML5, Next Gen, Tableau, NLP, AWS SAM CLI, Perl, Apache Airflow, databricks, React JS, CSS3, D3, SNS, SQS, and JavaScript for a comprehensive and responsive user experience.
* Developing web applications, following Django Framework's Model-View-Controller (MVC) architecture, ensuring a structured and organized development process, enhancing maintainability and scalability of applications.

**LEAD PYTHON DEVELOPER**

**COMMONWEALTH OF PENNSYLVANIA, HARRISBURG, PA**

**SEPTEMBER 2018 –NOVEMBER 2021**

**RESPONSIBILITIES:**

* Implementation of Web Services using SOAP, establishing a sturdy mechanism for sending and receiving data from external interfaces in the XML format. This effort not only facilitated seamless communication but also complied with industry standards for data exchange.
* Implemented novel metrics within the Smart family Software as a Service (SaaS) family safety and internet security platform, enhancing monitoring and analytical capabilities for users.
* Demonstrated versatile programming skills by developing and deploying applications in Python, Perl, and C. These applications focused on inventory tracking, accounting, and equipment control, resulting in tangible improvements in efficiency and accuracy within critical business processes.
* Developed Azure DevOps pipelines for continuous integration and deployment (CI/CD), Pyspark, and Snowflakes, automating the build, test, and deployment phases of Python and golang applications.
* Development of robots using UiPath studio, including tasks such as identifying and debugging errors through the implementation of error handlers. Actively engaged in online meetings to showcase the capabilities of Robotic Process Automation (RPA) for ongoing projects and potential clients, contributing to the adoption and integration of automation solutions.
* Designed and implemented scalable and resilient Python applications on the Azure cloud platform, ensuring optimal performance and cost-effectiveness.
* Designed and contributed to the development of web-based applications, demonstrating proficiency in Python 3, terraform, Kafka, Django, PHP, React JS, Angular JS, c++, XML, CSS, NODE JS, Graph QL, redshift, power BI, Chef, D3, AWS SAM CLI, HTML, ansible, NodeJS, DHTML, Camunda, JavaScript, and JQuery. This broad skill set underscores adaptability across various technologies and languages, ensuring a comprehensive approach to web development.
* Spearheaded the transition to a microservices architecture using Python, Terraform, Docker, Tableau, and Azure Kubernetes Service (AKS), Azure blob storage, Cosmo DB, enhancing flexibility and scalability.
* Designed and meticulously developed robust RESTful APIs in Python and golang employing frameworks such as Flask and Django, ensuring flawless communication between services within a distributed environment, meeting the highest standards of reliability and scalability.
* Developed WebApps (PaaS solutions) on the Azure portal, Azure blob storage, and Jenkins, focusing on deploying Kubernetes through streamlined Azure DevOps pipelines. This involved a meticulous approach to ensure efficient scaling, deployment, and management of Kubernetes-based applications.
* Integrated Azure Databricks into the ecosystem for intricate big data processing harnessing the power of Python for data analysis, machine learning, and artificial intelligence. This strategic integration significantly contributed to the organization's data-driven decision-making capabilities and analytical prowess.
* Designed workflow automation, on the advanced features of Azure Logic Apps. By seamlessly integrating Python scripts into business processes, this automation initiative streamlined operations, promoting efficiency and reducing manual intervention.
* Designed a secure authentication and authorization framework, utilizing the robust capabilities of Azure Active Directory. This initiative significantly fortified the security posture of Python applications, ensuring adherence to the highest standards of data protection.
* Designed serverless FastAPI on Google Cloud Functions and Python. This strategic initiative focused on optimizing resource utilization and reducing operational overhead on GCP, Jenkins, Flask, and PostgreSQL, resulting in a scalable and cost-effective API architecture.
* Developed e-commerce management applications using Python, introducing advanced functionality to the e-commerce website and optimizing the order management process for enhanced efficiency.
* Developed a robust message workflow system using Python, Chef, MongoDB, Python Dash, Next Gen, D3, Microservices, and Sybase, ensuring that trades underwent OFAC screening before proceeding to processing and settlement, highlighting a commitment to compliance and risk mitigation.
* Developed Python FastAPI for dumping array structures in the Processor at failure points, aiding in efficient debugging processes. This initiative showcased a proactive approach to identifying and resolving issues within the system.
* Developed dynamic web pages using a diverse tech stack, including JSP, react js, Snowflakes, big data, terraform, Microservices, CSS, NODE JS, GRAPHQL, REDSHIFT, POWER BI, SDVI, Vue.js, Terraform, BOX API, 3GPP, docker, PostgreSQL, Dask, and PySpark, demonstrating versatility and proficiency in creating feature-rich and visually appealing web applications.
* Designed and implemented a secure authentication and authorization framework, utilizing the robust capabilities of Google Cloud Identity and Access Management (IAM). This initiative significantly fortified the security posture of Python and golang applications on GCP, ensuring adherence to the highest standards of data protection.
* Deployed web apps (PaaS solutions) on the Azure portal, Pyspark, Azure blob storage, Python Dash, NodeJS, and Cosmo DB, on DevOps pipelines for streamlined deployment of web applications. This approach emphasized efficiency in the deployment process on the cloud platform.
* Developed server-side components using the Django framework, meticulously crafting routes and queries to construct a robust Restful API, fostering efficiency and maintainability.
* Designed and created reports and graphs, employing the Matplotlib package within the scientific computing stack Pandas Data framework, contributing to enhanced data analysis and decision-making processes.
* Orchestrated the development of an information pipeline utilizing Kafka and Storm, streamlining the process of storing data in the Hadoop Distributed File System (HDFS), enhancing data processing efficiency, and contributing to a more robust data storage solution.

**SENIOR PYTHON DEVELOPER**

**KEY BANK, BOLINGBROOK, IL**

**MAY 2017 – AUGUST 2018**

**RESPONSIBILITIES:**

* Implemented Lambda functions to streamline data ingestion from both Kinesis and SQS, orchestrating the smooth replication of data in DynamoDB. This showcased a strategic utilization of AWS serverless architecture for effective and scalable data processing.
* Developed security tools and applications utilizing Python and golang, demonstrating expertise in scripting with BASH and PowerShell. This comprehensive approach ensured robust security implementations and efficient automation within the software ecosystem.
* Designed and executed RESTful APIs, facilitating seamless interactions between the SupplyHog platform and users, contractors, and suppliers. This initiative notably enhanced data exchange and system functionality, delivering a more efficient and user-friendly experience.
* Executed the development of a Spark Streaming script capable of consuming topics from the distributed messaging source Kafka. This script periodically forwarded batches of data to Spark for real-time processing, showcasing proficiency in big data and stream processing.
* Designed and implemented Python and Django interfaces, seamlessly integrating with jQuery UI, terraform, BigQuery, GCP, and Golang, while managing storage and content deletion. This multifaceted integration highlighted a comprehensive understanding of diverse technologies.
* Developed consumer-centric features and applications using Python, Cosmo DB, FastAPI, Django, Microservices, HTML, apache airflow, databricks, Jenkins, Pyspark, Snowflakes, Behavior Driven Development (BDD), PostgreSQL, and pair-based programming. This collaborative and comprehensive approach ensured the delivery of user-centric features and applications, enhancing the overall user experience.
* Designed and implemented end-to-end DevOps CI/CD pipelines, integrating Jenkins for automated builds, tests, and deployments, thereby streamlining the software delivery process. This resulted in a significant reduction in release cycles, ensuring consistent and reliable application releases. Git workflows and version control were utilized to maintain a collaborative and efficient development environment.
* Designed front-end frameworks such as CSS Bootstrap to create visually appealing and responsive user interfaces for web applications, focusing on enhancing the overall user experience and ensuring a seamless interface.
* Developed and launched Kubernetes to establish a platform dedicated to automating deployment, scaling, and operations of application containers across clusters of hosts, significantly contributing to the efficient management of containerized applications, ensuring scalability and operational efficiency.
* Developed consumer-oriented features and applications using a diverse range of Python and golang frameworks, including Django, Pyramid, Flask, Web2py, HTML, databricks, docker, Kafka, and other web technologies, showcasing adaptability and proficiency across different frameworks, enriching the development toolkit.
* Developed comprehensive monitoring and logging infrastructure, on the functionalities of Google Cloud Monitoring and Google Cloud Logging for timely issue detection and resolution on GCP, terraform, and Apache airflow, contributing to the overall reliability and performance optimization of Python and golang applications.
* Developed and implemented Python modules to extract and load asset data from the MySQL source database, playing a crucial role in effective data management and integration within the system.
* Designed and implemented a dedicated MySQL database server to support web applications and report on daily progress, ensuring robust data storage, retrieval, and reporting capabilities. Integrated Redis-Cache with Django-rest-framework to enhance data reading speed, emphasizing performance optimization in data access and retrieval processes.
* Developed containerized solutions using Docker for streamlined application packaging and deployment, orchestrating the deployment of containerized applications in DevOps Kubernetes to enhance scalability, portability, and resource efficiency. Implemented Helm charts for effective management of Jenkins deployments, facilitating efficient application lifecycle management.
* Developed a notification service by posting JSON requests in AWS API Gateway, validating responses in Lambda, retrieving data from Dynamo DB, and sending notifications through AWS SNS, SQS, and angular js, demonstrating expertise in AWS services and event-driven architectures.
* Developed a comprehensive tech stack including object-oriented Python, Flask, Snowflakes, NodeJS, FastAPI, PostgreSQL, Beautiful Soup, httplib2, Jinja2, HTML/CSS, NODE JS, GRAPHQL, REDSHIFT, POWER BI, Bootstrap, JQuery, Linux, react js, Sublime Text, and GIT in the development process, ensuring a well-rounded approach to application development.
* Developed and tested dashboard features using CSS, NODE JS, GRAPHQL, REDSHIFT, POWER BI, JavaScript, Kafka, Microservices, Django, and Bootstrap, ensuring visually appealing and functional user interfaces that meet user expectations.
* Designed deployment groups for workflows, worklets, sessions, mappings, source definitions, and target definitions, streamlining deployment processes across different environments to ensure consistency in application behavior.
* Deployed third-party applications using various CI tools like Jenkins, contributing to a seamless integration and deployment pipeline, ensuring efficient and error-free deployment of external applications.

**PYTHON DEVELOPER**

**LEGENCE BANK - ELDORADO, IL**

**MARCH 2015 – APRIL 2017**

**RESPONSIBILITIES:**

* Implemented a Test-Driven approach for application development, crafting unit tests utilizing the Python Unit test framework. Additionally, I crafted Isomorphic React.JS and Redux-driven API client applications, demonstrating a comprehensive testing and development methodology.
* Developed tools using Python, Shell scripting, and XML to automate some of the menial tasks. Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.
* Developed Front-End pages and components with exceedingly clean, semantic markup, using technologies including HTML, APP SYNC,CSS, Bootstrap, JavaScript, jQuery, jQuery UI and other tools.
* Designed test cases and test plans and developed an embedded software data-driven test automation framework in Linux/Python.
* Developed CI/CD system with Jenkins and deployed the project into Docker using GIT, AMPLIFY version control system.
* Developed the front end for interaction by using the Django framework. The created Data layer in MYSQL. Extracted and loaded data using Python scripts and PL/SQL packages.
* Developed an autonomous continuous integration system by using GIT, Amplify, EMR Gerrit, Jenkins, AWS Glue MySQL and custom tools developed in Python and Bash.
* Developed application logic using Python, Jython, and Java script.
* Developed complex SQL Queries, Stored Procedures, Triggers, Cursors, Functions, and Packages along with performing DDL and DML operations on the database.
* Designed and developed a data management system using Pyspark and developed and tested websites using mean (MongoDB, TimescaleDB, DynamoDB and HDFS) stack.
* Responsible for installing, configuring, and maintaining codeigniter, Dask, .NET, OpenSearch Graph QL, pyspark, apache, and MySQL on AWS LAMBDA, snowflake cloud servers
* Developed server-based web traffic using Restful API's statistical analysis tool using Django
* Developed Restful Microservices using Flask and Django and deployed them on AWS lambda, and snowflake servers using EBS and EC2, CLOUDWATCH, REDSHIFT.
* Designed and Developed database schema in TimescaleDB, DynamoDB and MongoDB.
* Developed web components by using JSP, and Servlet under J2EE Environment and implemented security features for the APIs.
* Developed Cloud Formation templates, also launched AWS LAMBDA, snowflakE Elastic Beanstalk for deploying, monitoring and scaling web applications using different platforms like Docker, Python etc.
* Developed a MATLAB algorithm which determines an object's dimensions from diGIT, Amplifyal images.
* Developed various custom objects, tabs, components, and visual force pages
* Designed and configured database and backend applications and programs.
* Developed dashboards to monitor druid cluster health using InfluxDb, and Kafka.
* Designed front-end pages using React, HTML5, JSX, CSS3, JavaScript, Bootstrap, jQuery, TypeScript, and NodeJS for interactive cross-browser functionality, complex user interface and building responsive, dynamic pages.
* Developed complex SQL queries for testing the database functionality.
* Developed and maintained the Verification and Validation group's project schedules and roadmap ensuring the project on schedule.
* Developed Wrapper in Python for instantiating multi-threaded applications.
* Developed data mutations in GraphQL which allow users to update their username and password information.
* Developed and designed an automation framework using Python and Shell scripting.
* Worked with various types of data structures in Pandas, including Series, DataFrames, and PanelCreated core Python API which will be used among multiple modules.
* Worked on creating and documenting for migrating the current application to microservice architecture.
* Wrote Python scripts to manage AWS LAMBDa, snowflake resources from OpenAPI calls using BOTO 3 SDK and worked with AWS LAMBDa, snowflake cli.

**PYTHON DEVELOPER**

**PROCTER & GAMBLE - CINCINNATI, OH**

**NOVEMBER 2013 – JANUARY 2015**

**RESPONSIBILITIES:**

* Built a responsive website with a completely new UI and functionality.
* Involved in designing and developing Automation Test cases using Selenium WebDriver, Java, and TestNG.
* Worked closely with the Back-End team to display data using the Custom Components, and library Components.
* Wrote extensive HTML, APP SYNC,CSS and JavaScript code to build dynamic pages using Eclipse.
* Wrote well-organized and sustainable code.
* Performed data collection using various tools and used that to do capacity planning and performance tuning of the MySQL instances.
* Worked in MySQL database on simple queries and writing Stored Procedures for normalization and DE normalization.
* Wrote unit testing codes using the unit test, resolving bugs and other defects.
* Worked in an agile environment - applied scrum methodologies and engaged in weekly sprints with presentations to mentors and other teams for feedback.
* Worked on writing and as well as read data from CSV and Excel file formats using Python.
* Worked on resulting reports of the application and Tableau reports.
* Worked on UI using HTML5, CSS3 and Java Scripts.
* Used Test driven approach (TDD) for developing services required for the application.
* Handled all aspects of the web application including maintaining, testing, debugging, and deploying.
* Used Python modules such as requests, urllib, and urllib2 for web crawling.
* Used other packages such as beautiful soup for data parsing.

**TECHNICAL SKILLS:**

* **Languages:** Python, Core Java, JavaScript, PHP, SQL, PL/SQL.
* **Framework:** Django, Rest Framework, Pylons, Webware, Flask Web framework, web2py, Docker, Kubernetes, CSS Bootstrap.
* **Machine learning libraries:** TensorFlow, Keras, PyTorch
* **Databases:** SQL databases like MS-SQL, SQL Server, Oracle, Solid Cloud, My SQL and NoSQL dbs like Dynamo DB, MongoDB.
* **Application Servers:** IBM Web Sphere, Apache Tomcat, IIS, Glassfish.
* **Testing Tools :** Selenium, Python Unit test, Google Test, Google Moc, Ansible, Windows, Linux/Unix, Ubuntu.
* **Natural Language Processing (NLP) libraries:** NLTK, SpaCy.
* **IDE's/ Development Tools:** PyCharm, Eclipse, emacs, vi.
* **Deep learning frameworks:** Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN)
* **SQL and NoSQL databases:** MySQL, Graph QL, 3Gpp, PostgreSQL, MongoDB, DynamoDB, TimescaleDB, Cassandra
* **Cloud computing platforms:** AWS LAMBDA, snowflake , Azure, GCP
* **Python Libraries:** Beautiful Soup, Numpy, Fast api, Pydantic, Scipy, Matplotlib, Solid Cloud, Seaborn, Tensor Flow, Requests, Pandas, Anaconda.
* **Bug Tracking Tools:** Trac, JIRA, KUBERNETES, Bugzilla, MATLAB, The Bug Genie.
* **Version Controls:** Cvs, subversion, GIT, FORGEROCK, Amplify & GIT, FORGEROCK, AmplifyHub.
* **Big data technologies:** Big Data, Spark, Hadoop
* **Cloud Technologies:** SnowSQL, Snowpipe, AWS LAMBDA, snowflake EC2, CLOUDWATCH, REDSHIFT, Lambda, snowflake, Nexus, Nexus, Kedro, Networking etc.,
* **Web Technologies:** HTML5, CSS3, XML, FAST API, PYDANTIC, JavaScript, JSON, jQuery, React JS, and Bootstrap.
* **Other Tools:** Swim charts, Excel, MS Word, Visio, PowerPoint, Oracle data Management suite, Google Analytics, SharePoint, Salesforce CRM, Salesforce SFA, Apex Language, Apex Classes/Controllers, Apex Triggers, SOQL, SOSL.