**Dhiraj Manne**

**dhirajmanne@gmail.com**

**Professional Summary:**

* Over 8+ Years of experience as Python developer in Analysis, Design, Development, Management, and Implementation of various standalone and client -server architecture-based enterprise application software.
* 4+ years of experience in Azure Cloud, Azure Data Factory, Azure Data Lake Storage, Azure Synapse Analytics, Azure Analytical services, Azure Cosmos NO SQL DB, and Data bricks
* Expertise in establishing database connections for Python by configuring packages like JDBC, MySQL-Python.
* Good experience of transforming business requirements into comprehensive solutions using various software methodologies such as Agile (Scrum, TDD).
* Extensive experience in web application using UI design HTML5, CSS3, JavaScript, AJAX, JQuery, Bootstrap, Angular.JS Node.Js, D3.js, W3C, React.js, Backbone.Js, Web that follows W3C Web Standards and are browser compatible
* Experience in AngularJS pattern in the application development. Creating style guides, best practices and setting UI standards for enterprise/consumer applications.
* Experienced in a Python based environment, along with data analytics, data wrangling and Excel data extracts.
* Extensive knowledge on creating Data models using Django REST framework including data normalization and transactions.
* Hands on experience in interfacing with REST API, database objects, Authentication (OAUTH & AUTH) and handling unstructured JSON data.
* Worked on Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, ECS Fargate, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Extensive experience with ingestion frameworks and data managements tools.
* Exposure in using Pyspark for analysing web logs and server logs.
* Involvement in building frameworks and automating complex workflows using Python for Test Automation.
* Worked on building and sharing Domain Knowledge for MISO’s Energy Market.
* Expertise in time series power market analytics of PJM and other ISO/RTO markets including peak/off peak load analysis, using day-ahead and real-time market data of power generation, transmission, and congestion at various LMP zones/hubs. Responsible for creating efficient design and development of responsive UI using with HTML5, CSS3, JavaScript, MEAN stack (MongoDB, Express, Angular, and Node JS) and React JS. Implemented OAuth2.0 for authentication-based web application and accessed APIs for fetching data services.
* Used Heroku for hosting PHP application, Data exchange with third party using PHP/XML.
* Expertise in Production support and knowledge of deployment using AWS, Heroku and Jenkins.
* Created a full web stack using AWS Infrastructure(Beanstalk, multiple lambdas, Amazon Aurora, API Gateway etc) to create a fully functioning API using GraphQL technology with multiple data sources.
* Building and Installing servers through ARM Templates for Azure Portal.
* Experience in working with Python ORM Libraries including Django ORM. Superior Troubleshooting and Technical support abilities with Migrations, Network connectivity and Security and Database applications.
* Experience in VSTS, TFS, Gated Check - ins, Build Definitions, Release Management, PowerShell, Power BI.
* Assessed costs and risks associated with developing new features and products.
* Skilled in testing tools like Bugzilla and JIRA.
* Worked with GraphQL queries, used Apollo GraphQL library, and managed more than 75 NoSQL clusters.
* Contributed to the Python codebase used in the automated deployment of software on multiple virtual machines.
* Experienced in working with various Python IDEs using PyCharm, Spyder, NetBeans, Py-Studio, Py-Scripter, Eric, Wing IDE and Py-Dev. Used OAuth authorization framework to enable application to obtain limited access to user accounts on the Restful Service. Involved in the CI/CD pipeline management for managing the weekly releases. Worked on packages like socket, RESTful API, Flask.
* Deployed the project into Heroku using GIT version control system.
* Experienced in requirement gathering, Use case development, Business Process flow, Business Process Modelling
* Responsible for user validations on client side as well as server side.
* Adept at automating repetitive work through Shell scripts and Python.
* Ableto analysis a requirement and act accordingly by managing the resources efficiently.
* Skilled in strategically architecting, designing, developing, and implementing efficient information systems and/or operations systems in support of core enterprise functions.
* Adept at working on Full Stack (Microservices API/Angular), AWS Cloud, RDBMS (SQL/Oracle/Postgres), DevOps (Jenkins/Kubernetes/Docker), Python (Machine Learning and Artificial Intelligence) and Data Engineer.
* Well-versed in project scheduling, planning, life cycle phases process groups based on the project SLA parameters.
* Worked on resource management, data presentation, database management and theorizing.
* Huge experience working on different Technologies used include VueJS, HTML 5, SCSS/SASS, Apollo-GraphQL, SQLAlchemy.
* Track record of success in multiple projects worth multi-million Dollars across the professional career.
* Proficient in designing, developing, and debugging web-based applications using technologies in Spring boot, Angular,.Net.
* High mentoring ability with excellent communication and team management skills.
* Experience in project deployment using Heroku/Jenkins and using web services like Amazon Web Services (AWS) EC2 and AWS S3.

**Skills:**

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| **Programming Languages** | C#, Python 2.x/3.x, Ruby, Java, JavaScript, PL/SQL, Shell Scripting |
| **Backend Technologies** | Python, PHP, Nodejs, Bash Scripting |
| **Code maintenance Tools** | CVS, Tortoise SVN, GIT |
| **Python Libraries** | Requests, Scrapy, Wx Python, Pillow, SQL Alchemy, Beautiful Soup, Twisted, NumPy, SciPy, matplotlib, Py-game, Py-glet, Py-QT, Py -Gtk, Scapy, Py-win32, Ntlk, nose, Sym-Py, python, Raspberry Pi, NLP, neo4j |
| **Web Frameworks** | Django, Pyramid, Turbo Gears, Muffin, Cherry Py |
| **GUI Frameworks** | Py-Jamas, Gnome Python, gui2py, Py-Fltk, Py-Forms, Py-Gtk, Py -Side, Tk-Inter |
| **Version Control Tools** | Concurrent Versions System (CVS), Subversion (SVN), GIT, GitHub, Mercurial |
| **Automation Tools** | Ansible |
| **Cloud Technologies** | AWS Cloud, Azure, Kubernetes, Informatica Cloud, OpenStack,Glue,AWS,Lamda, Glue, Heroku, Dynamo DBECS Fargate) |
| **Testing Tools** | Unit Test, Py-test, API Mocking, JUnit, PAM, Selenium, Splinter, Py FIT, Py Use Case, Automap, Py-Checker |
| **Performance testing tool** | JMeter, LoadRunner |
| **IDE** | Eclipse, Notepad++, NetBeans, PyCharm, Py-Studio |
| **Databases** | MySQL, SQLite, MongoDB, Cassandra, NoSQL, PostgreSQL |
| **Bug Tracking Tools** | Bugzilla, Jira |
| **Operating Systems** | Windows 98/NT/2000/XP/Vista/7/8, Unix/Linux, Sun Solaris,IOS |
| **Methodologies** | Agile, Scrum |

**Athene, West Des Moines, IA Dec 2020 - Present**

**Senior Python Developer**

* Responsible for setting up Python REST API framework using Django.
* Developed views and templates with Python and Django view controller and templating language to create a user-friendly website interface.
* Wrote PowerShell scripting for task automation and to schedule tasks.
* Developed backup and recovery engine for VM backup/recovery using VMware vSphere APIs, GoLang programming language and RabbitMQ Message bus (communication interface). Used XML/XSLT for transforming common XML format and SSO/SAML for Single Sign-On.
* Great hands on experience with Pyspark for using Spark libiries by using python scripting for data analysis.
* Experience using Restful to push configure to devices with Java and Erlang.
* Used Go Programming Language (GoLang) and Scala in the development of the application.
* Created PDF reports using Golang and XML documents to send it to all customers at the end of month with internation language support.
* Developed web applications in Django Framework model view control (MVC) architecture.
* Used Python to write data into JSON files for testing Django Websites. Created scripts for data modelling and data import and export.
* Work with NLTK library to NLP data processing and finding the patterns.
* Used J Query and Ajax calls for transmitting JSON data objects between frontend and controllers.
* Involved in building database Model, APIs and Views utilizing Python, in order to build an interactive web based solution.
* Thorough knowledge in various front end tools like HTML, CSS, JavaScript, XML, JQuery, Angularjs, and AJAX. Managed large datasets using Panda data frames and MySQL.
* Application of various machine learning algorithms and statistical Modeling like decision trees, text analytics, natural language processing (NLP), supervised and unsupervised, regression models, social network analysis, neural networks, deep learning, SVM, clustering to identify Volume using Scikit-learn package in python
* Used Amazon Web Services (AWS) to maintain a centralized storage for server hosted on two boxes
* Used glassfish containers in amazon ec2 cloud servers for deployment
* Setup Amazon EC2 instance, integrated Amazon S3 with the Scrumpad, and did the automatic deployment by Capistrano.
* Installation/manage oracle database including databases on AWS (Mongo, RedShift, RDS)
* Performed troubleshooting on customer environments, web applications, network configurations, and end-user usability for the API Gateway and API Developer Portal.
* Created the domains, application servers and load balancers using Weblogic 9.0
* Implemented AWS solutions like Route 53, EC2, S3, IAM, EBS, Elastic Load Balancer (ELB), Security Group, Auto Scaling in Cloud Formation JSON templates.
* Created data pipelines for different events to load the data from DynamoDB to AWS S3 bucket and then into HDFS location.
* Experience in Virtualization technologies like VMWare, Vagrant and worked with containerizing applications like Docker, Kubernetes
* Working with the JIRA tool for QualityCenter bug tracking
* Developing Microservices using Spring Boot, Spring AOP, RabbitMQ for transporting and fetching data.
* Created micro-service APIs for page classification, image processing and OCR, and extract text data from scanned documents.
* Created step function by micro-service lambda function in AWS and used ingestion framework.
* Conducted some data analytics and processing by using AI and ML algorithms.
* Database management with SQL and NOSQL like MongoDB and DynamoDB.
* Developed three early prototypes using React, React Native, Redux, GraphQL, Apollo, and AWS services Cognito, Appsync and DynamoDB.
* Migrated the application from cloud Foundry to AWS using the EC2 and Fargate instances.
* Worked primarily with the back-end team where the coding language was solely based on Python and Django to use fast api, flask frame work was used in some cases. (Numpy, Scipy, Pandas, Opencv, boto3, nltk)
* For real time document analytics and document processing, NLP technique was used with the company’s product.
* Also many restful APIs and endpoints were created to process paper transactions and deliver superior real time visibility needs of importers, exporters, and freight forwarders.
* Worked with Azure, AWS cloud servers/serverless, CI/CD and conducting database management duties Git workflows.
* Experience in project deployment using Heroku/Jenkins and using web services like Amazon Web Services (AWS) EC2 and AWS S3.
* Experience in building and architecting multiple Data pipelines, end to end ETL and ELT process for Data ingestion and transformation in GCP and coordinate task among the team.
* Design and architect various layer of Data lake.
* Design star schema in Big Query
* AWS Kinesis Streams, AWS Step Functions (Serverless) Pipelines, AWS Kinesis Streams, Google TensorFlow, AWS Step Functions (Serverless) Pipelines, AWS Kinesis Streams, AWS Kinesis Streams Data Analytics Streaming SQL (AWS EKS) Pipelines.
* Some of the technologies and the tools that are used: Go, Elixir, Swift, Ruby, Python, Node.js, PHP, Meteor, Scala, JavaScript, AngularJS, React, MongoDB, PostgreSQL, Neo4j, RabbitMQ.
* Worked on Kubernetes API endpoint’s in exposed EKS managed console plane.
* Implemented microservices, application development, and migration using AWS/Azure services such as Azure DevOps, Kubernetes Service (AKS), Container Registry, Cosmos DB, and Grafana, Azure pipelines, Monitor, RBAC, AWS Kubernetes EKS, and Kubernetes API to run workloads on EKS Clusters.Experience in creating clusters using Kubernetes, creating pods, replication controllers, deployments, labels, health checks, and ingress by writing YAML files and hands-on experience in building and deploying the application code using CLI of Kubernetes.
* Experience in using various version control systems like CVS, Git, Bitbucket. GitHub and Amazon EC2 and deployment using Heroku.
* Managed a team of four software engineers and collaborated wif teh iOS team to design and develop teh Confidential Tagging System, an Elixir and Phoenix Application, used to facilitate user retention, tracking, and Interaction

Environment: Python, Django, Shell Scripting, AWS, Pandas, PyQt, PyQuery, Flash, HTML, CSS, Javascript, Node.Js, Angular.Js, React.js, AJAX, Oracle, MongoDB, MySQL, JDBC, Git, Github, Rest, SOAP, WebServices, Selenium, UML, Eclipse, Junit, Itext, Subversion, Agile, Web 2.0, SOA, GO, Goroutine, Microservices, Channels, Gokit, GORM, Gorilla Mux, Go-Hystrix, Go Doc, JavaScript, HTML5, CSS3, Heroku, TypeScript

**Infoverity, Inc**, **Dublin, OH Nov 2018 - Nov 2020**

**Senior Python Developer**

* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Wrote a prototype on GoLang to improve performance of report generator.
* Worked on writing chain code using GOlang.
* Developed Single Page applications using AngularJS using components, directives using Javascript, Backbone.js, TypeScript and NodeJs.
* Use of AWS Appsync (GraphQL) for web API creation and Data synchronization into Aurora Postgres or Dynamo DB engine
* Refactor Python/Django modules to deliver certain format of data.
* Managed datasets using Panda data frames and MySQL, queried MYSQL database queries from python using Python-MySQL connector and MySQL dB package to retrieve information.
* Developed Python code to gather the data from HBase and designs the solution to implement using PySpark.
* Utilized Python libraries NumPy and matplotlib.
* Built Single Page Apps using Angular 2 and Typescript for Responsive Design.
* Wrote Python scripts to parse XML documents and load the data in database.
* Used Wireshark, live http headers, and Fiddler2 debugging proxy to debug the Flash object and help the developer create a functional component. Created Javascript, TypeScript reusable components and services to consume REST API's using Component based architecture provided by angular 2.
* Based on scrum management, responsible for running sprints, integrated testing, risk reducing of project and project progresses.
* Responsible for developing UI using Html, CSS, Bootstrap and Angular Framework.
* The primary language used was python and for the frame work we used Django/Flask.
* Based on python and Django, built prebuilt components, security features, rest full apis and fast apis for enterprise version of web application.
* In addition to Python and Django, responsible for SQL database management and AWS cloud management.

Data processing based on Numpy, Scipy, Pandas, Pyspark

* Designed UML class diagram, sequence diagram, use case diagram and coding for backend using Java
* Involved in analysis, design and coding of Create Activity, Office Activity and Policy view modules using Struts, Jsps, Webservices, Java-script and CSS.
* Experience developing various web applications using ClojureScript for front end and J2EE, Servlets, Elixir, Erlang, Clojure, for backend applications.
* Designed frontend using AJAX, jQuery, jQueryUI, Node.Js, Angular.Js, Bootstrap.Js, Backbone.Js, React.js, JavaScript.
* Using g-cloud function with Python to load Data in to Bigquery for on arrival csv files in GCS bucket.
* Write a program to download a SQL Dump from there equipment maintenance site and then load it in GCS bucket. On the other side load this SQL dump from GCS bucket to MYSQL (hosted in Google cloud SQL) and load the Data from MYSQL to Bigquery using Python, Scala, spark and Dataproc.
* Created Python tools to increase the efficiency of application system.
* Implemented REST calls that consume the REST API’s using Angular Http Module.
* Extensively used Reactive Forms and Angular Form Validation. Wrote reusable and efficient code to display form data.
* Wrote teh HTTP RESTful Web services and SOAP API's in Erlang, Elixir, Phoenix, Node and Python languages.
* Used Angular Routing Module to implement routing, and role-based routing for Single Page Application.
* Used regular expressions for faster search results in combination with Angular built-in, custom pipes and ng2-charts for report generation.
* Worked on vesatile environment like IRAD, Eclipse, NetBeans, Sun ONE Studio, Web Sphere Studio 7.0 8.0, Jbuilder, Web Gain Business Designer Structure Builder, Elixir Case, and Visual Source Safe and Erwin for Data base Scheme Design.

Environment: Python, Django, Shell Scripting, AWS, Javascript, Node.Js, Bootstrap.Js, Angular.Js, Backbone.Js, CSS, HTML5, JSP, JDBC, Hadoop, Big data, Cassandra, NoSQL, MongoDB, MySQL, MS SQL, Soap, Web Services, REST, SOAP, APACHE CXF, Eclipse, Junit, Jira, GIT, Heroku, GITHUB, Subversion (SVN), Maven, SOA, JMS, Tomcat, Linux, Typescript

**American Express, New York City, NY Aug 2017 - Oct 2018**

**Python Developer**

* Developed tools using Python, Shell scripting, XML to automate some of the menial tasks. Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.
* Involved in adding AJAX, JavaScript components to some of the jsp pages wherever needed.
* Enhanced the functionality of screens using JSP, HTML, JavaScript, CSS and JQuery.
* Used JavaScript for Client Side validations.
* Designed and developed the web-tier using Html, JavaScript, Angular.js, Node.js, JSP, Ext.js, Servlets, DOJO, Struts and Tiles framework.
* Developed mock data generation feature that is integrated with GraphQL IDE interface to allow users to send queries against their custom generated schema and render mock results in order to familiarize users to the GraphQL syntax.
* Independently integrate multiple APIs and new features using the React + GraphQL stack.
* Developed PL/SQL store procedures for data migration and database upgrade from oracle using MYSQL,
* Developed the CRUD API for the POS Engine using Restful, Apache Axis2 and generated the WSDL.
* Collaboration technology planning, social media adoption and metrics Web 2.0 strategy.
* Working experience in Web Services using SOAP and WSDL, JSF, JSON, JQuery, JMS and Oracle coherence.
* Designed and developed DAO layer with Hibernate standards, to access data from IBM DB2
* Coded scripts to clean normalize, reformat data for loading into the ERP system using VB Script and Ruby
* Develop Mercurial, ClearCase, WordPress themes to meet the needs of the small business owner.
* Wrote data mutations in GraphQL which allows user to update their username and password information.
* Designed GraphQL to build client applications by providing an intuitive and flexible syntax and system for describing their data requirements and interactions.
* Experience in using various version control systems like CVS, Git, Bitbucket. GitHub and Amazon EC2 and deployment using Heroku.
* Implemented REST calls to consume the REST API’s using Angular GET and POST methods and tested calls using Postman.
* Utilized the RBAC Lifecycle and implemented ABAC in the IAM System
* Used Angular Routing Module to implement routing, and role-based routing for Single Page Application.
* Used regular expressions for faster search results in combination with Angular built-in and custom filters.
* Experience in designing, developing and testing C/C++ and Java applications in SDLC as well as Agile environment.

Environment: Python, AWS, JavaSCript, JSP, Angular.js, Node.js, Ext.js, HTML, CSS, MYSQL, SOAP, UML, Netbeans, Selenium, PL/I, ANT, EMC, Jira, Swing, ILOG, Mercurial, ClearCase, COGNOS, Waterfall.

**Celoris Tech, Hyderabad, Telangana  Oct 2013 - Nov 2015**

**Python Developer**

* Used XML for dynamic display of options in select box and description on web page.
* Writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on MySQL, PL/SQL and PostGreSQL database.
* Establishing database connections for Python by configuring packages like JDBC, MySQL-Python.
* Resolved user problems in a timely and accurate manner as a member of the End-User support team.
* Created the environment specific settings for a new deployment and update the deployment specific conditional checks in code base to use specific checks.
* Implemented Restful Web-Services for sending and receiving the data between multiple systems.
* Handled all the client-side validation using jQuery.
* Used to send text data through us sockets with most API's and JSON.
* Prepared and analyzed reports using Python libraries and involved in environment Setup.
* Worked with Amazon Web Services (AWS) using EC2 for hosting and Elastic map reduce (EMR) for data processing with S3 as storage mechanism.
* Implemented an express-graphql library to mount a GraphQL API server on the user-configured HTTP endpoint.
* Implemented a recursive algorithm to parse large GraphQL introspection queries into a dotfile format in order to visualize
* Used Python and Django to interface with the JQuery UI and manage the storage and deletion of content**.**
* Hands-on technical experience and seasoned Azure Infrastructure and migration to Azure. VPN solutions in Azure with the help of Network Security Groups, public and private network configurations. Hand-on experience in Microsoft Azure cloud platform and merge with python.
* Decommissioning Sun IDM resources, report, RBAC, Connectors and gateway
* Installed SailPoint IIQ 7.X, coding in BeanShell, Roles, RBAC, LCM, SailPoint APIs, Self-registration, SSO, create Rules, Approval policies, Gemfire, Kafka, OOTB connector and custom connectors using REST.
* Experience in Microsoft Azure cloud platform and merge with python. Azure cloud Merge with python to store the data into cloud with High security. Leveraged Azure Cloud resources - Azure Data Lake Storage Gen2, Azure Data Factory, StreamSets(SDC), and Azures Data.

Environment: Python, Django, MySQL, JDBC, REST API, JSON, JQuery, XML

**Education:**

* Bachelors in Information Technology from JNTUH in 2013.
* Masters in Information Technology from University of Maryland Baltimore County in 2017.