

Ram Prasad

PROFESSIONAL EXPERIENCE

9
years
of
experience
in
the
field
of
information
technology
primarily
around
Python
(Pandas,
NumPy,
Asyncio,
Flask)

.
Proficient
at
developing,
optimizing,
extract,
manipulate,

analyze
&
interpret
data
from
various
data
sources,
developing
analytic
solutions
and
deriving
key
observations
using
Python.

Experienced
in
data
querying
languages
(SQL
and
MySQL)
,
scripting
languages
(Python)
,
No
SQL
(MongoDB)

and
machine
learning
libraries.

Extensive
experience
in
data
analysis
and/or
reporting
along
with
strong
knowledge
of
database
and
related
technologies.

Developed
and
optimized
ETL
workflows
in
both
legacy
and
distributed
environments.

Worked
on
datasets
related
to
batteries,
telecommunication,
energy
and

analyzed
large
datasets
using
pandas
and
pyspark.

Expertise
in
reporting
tools
Tableau
and
Grafana.

Experience
in
Elasticsearch,
Kibana,
Logstash
and
Kafka.

Expertise
in
statistical
methods,
statistical
analysis,
data
visualization,
data
mining,
feature
engineering

and
model
selection
techniques.

Scheduling

the
reports

Daily,
Weekly
and

Monthly
basis

as
per

the
Client

Requirements.

Served

as

a

primary

point

of

contact

for

workbook

and

custom

Tableau

reporting

solutions

related

issues.

Experienced
in
directly
interacting
with
clients
in
taking
requirements
and
delivering
projects.

Maintained
adequate
communication
with
project
team,
explaining
the
progress
on
the
development
effort.

SKILLS

Languages

:
Python

Python

Packages

:

Pandas ,

NumPy,

Asyncio ,

Scipy,

PySpark,

SqlAlchemy ,

pymysql

Web

Frameworks

:

Flask,

Fast

API,

Django

Databases

:

SQL,

MySQL,

PostgreSQL,

MongoDB,

DynamoDB

Clouds

:

Azure,

AWS

EC2,

AWS

S3,
AWS
athena,
AWS
glue,
GCP,
BigQuery

ETL Tools

:
Lava
storm

Visualization Tools

:
Tableau,
Power
BI,
Grafana

Computer Vision

:
OpenCV

Tools

:
Airflow ,
Databricks ,
Kafka ,
Git,
Bit
bucket ,
Jira ,

gitla ,
Sonar
Qube

Projects

*Python
Developer-
Tomgandhi
Consulting
Limited ,
UK;
(JAN
2022
-
OCT
2022)*

Project

Description :

**Offshore
Wind
form**
is
a
cloud-
based
platform ,
associated
with
the

the
installation
of
wind
turbines
and
the
connection
of
power
grids.
It
will
provide
a
comprehensive
set
of
capabilities
for
the
analysis
and
design
of
wind
turbine
sub-
stations ,
mechanical
loading,
thermal
resistances,
and
optimization
techniques.

Roles and Responsibilities:

Working
with
product
management
and
technology
teams
to
understand
business
needs
and
find
possible
solution.

Developing
the
new
features,
handling
enhancements
and
fixing
bugs.

Working
with
AWS
cloud
platform
and
its

re

features

AWS

EC2/S3/RDS

/SES/DynamoDB

based

on

Python.

Implementing

AWS

services

like

EC2,

Elastic

Load

balancing

(ELB)

,

S3,

Cloud

Front,

SNS,

RDS,

IAM

Built

application

and

database

servers

using

AWS

EC2

and

create

AMIs

as

well

as

used

RDS

for

MySQL.

Created

AWS

S3

buckets,

performed

folder

management

in

each

bucket,

managed

cloud

trail

logs

and

objects

within

each

bucket.

Creating

RDS

instances

to

serve

data

through
servers
for
responding
to
requests.

Used

IAM

for
creating
roles,
users,
groups
and
also
implemented

MFA

to
provide
additional
security
to

AWS

account

and

its
resources.

Working

with
stakeholders
including
the

Executive,

Product,
Data
and
Design
teams
to
assist
with
data-
related
technical
issues
and
support
their
data
infrastructure
needs.

Responsible
for
analysis,
development
and
integration
of
APIs.

Maintained
and
updated
a
GraphQL
layer
to

allow
retrieval
and
updates
of

user
interactions
with

MySQL
database

Implementing

GraphQL

types
and
resolvers

to
provide
the

necessary
data
for

frontend
development
while

maintaining
minimal
calls

to
the
database.

Managing
the
schema,

tablespaces

tables/paces

and

writing

mathematical

functions

using

pandas

and

SqlAlchemy.

Implementing

multi-

processing,

fire

and

forget

for

the

services.

Maintained

and

updated

unit

and

integration

tests

for

both

the

GraphQL

and

lib

level

to

validate

validate
behavior

Managed

GIT

repositories

for

branching,

merging

and

tagging.

Maintain

and

support

API

gateway

infrastructure

and

associated

tools.

Used

JIRA

tool

to

track

all

the

defects

and

changes

related

to

build.

Python

Develop

Developer-

Prieto

Battery,

UK;

(MAR

2021

-

JAN

2022)

Project

Description:

**Smart
Battery
Management
System
(SBMS)**
is
a
monitoring
system
for
Industrial
that
runs
algorithms
to
calculate
the
SoC
(State
of
Charge)

,
SoH
(state
of
Health)
and
predicts
the
RUL
(Remaining
Useful
Life)
of
batteries.

Roles
and
Responsibilities:

Worked
in
designing
and
deploying
AWS
solutions
using
EC2,
S3.

Design
roles
and
groups
using
AWS

identity

and

access

management

(IAM)

Implemented

serverless

architecture

using

API

gateway,

lambda.

Responsible

for

setting

up

databases

in

AWS

using

RDS,

storage

using

S3

buckets.

Created

the

flask

rest

APIs

on

Mongo

DB

s

for
requests
for
web
application.

Created

the
flask

rest

APIs

on

Mongo

DB

for
requests

for
mobile
application.

Worked

on
physics-
based
algorithms

to
find

SoC

(State
of
Charge)

for
batteries.

Worked

on
calculating

calculating

the

battery

available

energy,

available

capacity.

Preparing

the

large-

scale

synthetic

data

from

small

scale

of

data

and

used

to

push

to

the

database.

Creating

the

users

to

access

the

respective

tables

in

Postgres.

Pushing
the
synthetic
data
of
calculated
predictions
to

ELK

through
python
script.

Pushing
the
synthetic
data
of
calculated
predictions
to

target
tables
through
python
script.

Creating
the
indexes
and
data
pushing
to

the

Kibana

through

python.

Maintaining

and

creating

the

Grafana

visualizations

for

battery

management

data

(database)

.

Creating

live

dashboards

using

Grafana,

for

to

monitor

the

algorithm

predictions.

Generated

the

synthetic

data

using

random

function
of
NumPy.
Managed
large
datasets
using
Pandas
data
frames
and
Postgres.

Python
Developer -
Worley,
Denmark;
(JUN
2018
-
FEB
2021)

Project
Description:

Predixio
is
a
platform
which
is
holds

all
machineries
data
of
current,
historic
and
running
statuses .
It
gives
the
current
process,
status
of
machines,
details
of
manufacturing
units
and
workflow .

Roles
and

Responsibilities:

Writing
effective,
scalable
code.

Worked
on
pyspark
to
distribute
data

processing

on

large

datasets.

Responsible

for

setting

up

databases

in

AWS

using

RDS,

storage

using

S3

buckets.

Integration

of

RESTful

API.

Assembling

large,

complex

sets

of

data

that

meet

non-

functional

and

functional

business
requirements.

Built
application
and
database
servers
using

AWS

EC2

and
create
AMIs

as
well
as

used
RDS

for
MySQL.

Writing

ETL
scripts
and
code

to
make
sure
the

ETL

process
performs
optimally

Handling
data
modeling,
data
warehouse
architecture,
**data
pipeline**

Managed

GIT

repositories

for

branching,

merging

and

tagging.

Developing

back-

end

components

to

improve

responsiveness

and

performance.

Managing

data

storage

and

solutions

for

application

robustness.

Creating

logics

for

data
processing
and
computations.
Combining
raw
information
from
different
sources.

Data

Analyst

-

*Telus,
Canada;*

*(JUL
2017*

-

*JUN
2018)*

Project

Description:

Intelligent

Workload

Distribution

(IWD)

is

a

telecom

back -

end

service

application ,

which

reports

view

of

back -

office

activities

and

that

provides

a

wide

range

routing

all

types

of

tasks

such

as

no

of

orders ,
complaints
etc .

Roles
and
Responsibilities:

Creating
and
developing
the
reports
using
pandas
(python)

.

Applying
business
logics
and
transform
the
data
into
required
format.

Auto
generation
of
reports
as
day,

month,

and

year

wise

using

Lava

storm.

Optimizing

different

lava

storm

graphs

and

tableau

reports.

Developed

Tableau

workbooks

from

multiple

data

sources

using

Data

Blending.

Developing

python

ETL

scripts.

Reporting

the

issues

and

resolve

the

issues

that

rise

during

the

test

process.

Writing

SQL

codes

in

lava

storm

nodes

to

pull

data

from

different

servers.

Automate

&

optimize

the

data

extraction

and

report

generation

process.

Loading

1

the
processed
data
into
tables
to
generate
the
reports

Analyst

(Intern)

-
Skanska,
Sweden;
(APR
2013
-
MAR
2017)

Project

Description:

The
objective
of
the
project
is
to
develop
a

sales
data
mart
and
develop
reports
focusing
on
different
areas
of
organization.

First
Phase
is
to
develop
an
ETL
application
for
the
data
mart
and
the
second
phase
is
to
develop
the
reports
for
analysis.

The
reports
are

are
mainly
useful
for
the
Top-
level
management
for
reviewing
performances
of
plants
and
to
take
strategic
decisions

Roles
and
Responsibilities:

Writing
reusable,
testable,
and
efficient
code
using
python.
Auto
generation
of
reports
as
day,

month,
and
year
wise
using
python.
Creating
Tableau
visualizations.
Publishing
Workbooks
and
Data
Sources
to
Tableau
Development.
Establishing
connections
to
Data
Sources.
Adding
or
Creating
Dimensions,
Measures
and
Calculations.
Performing
Data
Modeling
in

Tableau
Desktop.

Project

Description:

Resource

Placement

System

using

python

from

long

time

and

want

to

migrate

the

old

legacy

scripts

to

new/moderate

python ,

as

some

packages

are

are
downgraded
and
enhancing
scripts
for
application
will
help
to
streamline
the
process

Roles

and

Responsibilities:

Enhancing
the
legacy
python
scripts
to
new
version.

Collaborating
with
the
team
and
gathering

the
requirement.

Collate/collect
data

using

the

scripting

language

Work

with

product

management

and

technology

teams

to

understand

business

needs

and

find

possible

solution .

Issues

with

tracking

the

data

changes.

Errors

in

workflow

management.

Workload

Worked

closely

with

developers

and

business

teams

in

resolution

of

technical

resolutions.

Implemented

the

automation

scripts

using

python.

Debugging

and

maintenance

of

automation

scripts.

QUALIFICATIONS

Bachelor

of

Technology

in

Electronics

&

Communication

Engineering

Jawaharlal

Nehru

Technological

Technological
University,
Hyderabad,
India