SEKHAR MARTHA

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# PROFESSIONAL SUMMARY

# 6+ years of experience as a Python Developer using Python along with several packages

# Extensive experience in Adobe Flex, Adobe Flash, ActionScript, and ColdFusion to build highly rich web applications for internal property information and data entry.

# Real-time reporting in internal SharePoint site using Adobe Flex APIs along with MicroStrategy APIs.

# Expertise in Adobe Flex development, including Flex layout and navigation, event handling, pop-up dialogs, menus, and skinning.

# Experience in Google Cloud Platform (GCP), creating clusters and managing them using Kubernetes (k8s).

# Hands-on experience with Jenkins for deployment on Google Cloud, creating Docker images, pushing them to Google Cloud Container Registry, and managing namespaces.

# Strong application development experience using Python, Django, HTML5, CSS, Git, Java/J2EE, JavaScript, Oracle, PostgreSQL, and SQLite.

# Deep understanding of Object-Oriented Programming (OOP) concepts using Python, C++, and PHP.

# Expertise in web-based UI design and interface development using JSP, HTML, DHTML, CSS, Bootstrap, JavaScript, AngularJS, BackboneJS, jQuery, AJAX, and JSON.

# Experience in designing and implementing large-scale, business-critical systems using Object-Oriented Design and Programming (OOD/OOP) with Python and Django.

# Web application development expertise with ASP.Net, HTML5, JavaScript, jQuery, KnockoutJS, Bootstrap, PHP, and ActionScript 3.

# Proficiency in DevOps tools such as Chef, Docker, Puppet, Jenkins, Maven, ANT, SVN, Vagrant, and VirtualBox.

# Extensive experience in MVC architecture development using Full Stack frameworks like Django, Zope, and TurboGears.

# Development experience using Eclipse, PyCharm, Visual Studio, PyScripter, and Sublime Text for Python applications.

# Strong expertise in ORMs such as Django ORM and SQLAlchemy, including database design and normalization.

# Proficiency in unit testing with PyUnit and PyTest.

# Experience in web applications development using Django/Python, Flask/Python, Node.js, AngularJS, jQuery, HTML, CSS, and JavaScript for server-side rendered applications.

# Knowledge of SOAP and JSON Web Services.

# Hands-on experience with OpenStack, an open-source cloud computing platform.

# UI/UX development experience using HTML, CSS, JavaScript, AJAX, and AngularJS.

# Expertise in Cloud Service projects, deploying applications to Web Apps, PaaS, and IaaS, and configuring SQL Server Master Data Services (MDS) in Windows Azure IaaS.

# Strong background in MongoDB with CRUD operations using Mongoose Node module.

# Experience in deploying enterprise applications in JBoss AS and Apache Tomcat.

# Developed a fully automated CI/CD pipeline using Git, Gerrit, Jenkins, MySQL, and custom tools in Python and Bash.

# In-depth knowledge of front-end technologies, including HTML, DHTML, CSS, JavaScript, XML, jQuery, AngularJS, and AJAX.

# Experience in enterprise web application development using Python, PHP (PHP4, PHP5), Flask, Jinja2, Django, HTML, CSS, JavaScript, jQuery, AJAX, and MySQL.

# Hands-on experience with NoSQL databases, including Apache Cassandra (1.2, 2.0, 2.1) and MongoDB (2.6, 2.4), and OrientDB.

# Experience working with Git, GitHub, and Amazon EC2, with deployment experience using Heroku.

# Proficiency in JIRA for bug tracking and team collaboration.

# Strong understanding of Java Enterprise Edition (JEE) concepts, including Exception Handling, Inheritance, and JDBC.

# Expertise in RESTful API development using Django Rest Framework (DRF) and TastyPie.

# Proficient in caching mechanisms using Memcache and Redis Cache.

# Strong knowledge of Agile software development methodologies, focusing on customer collaboration and iterative development.

# TECHNICAL SKILLS

# Software: Veritas Volume Manager 4.1/5.x/6.0, LDAP, PIX Firewall, Checkpoint Firewall, Veritas File System, Veritas Net backup 6.0

# Build tools: ANT, MAVEN, Gradle, Jenkins, BAMBOO and Code Deploy.

# Configuration Management: Chef, Puppet and Ansible,

# Monitoring Tools: Cavission, Stackdriver, Splunk, Nagios and Cloud Watch.

# Languages: Bash Shell scripting, RUBY, C, C+t, Java, HTML, Perl, POWERSHELL, and Python..

# Bug Tracking Tools: JIRA, Remedy and HP Quality Center.

# Cloud computing: GCP, AWS.

# Web servers: Apache Tomcat, Nginix, JBOSS and WebSphere.

# Application servers: WebLogic, JBOSS and WebSphere

# Virtualization: VMware ESX, ESXi, Sphere 4 and Sphere 5 Citrix

# Databases: Oracle, SQL Server and MongoDB.

# SDLC: Agile and Scrum.

# Packaging and Networking: FTP - vsftpd, SSH, TELNET, TCP/IP, HTTP, HTTPS, DHCP, SNMP, FTP

# Operating Systems: Linux (Red Hat), Windows, UNIX, Ubuntu and macOs

# PROFESSIONAL EXPERIENCE

## 

## Client: Bnymellon

## Role: Python Developer September 2024 – Present

## Migrated 9 microservices to Google Cloud Platform from skava and have one more big release planned with 4 more microservices.

## Working on the migration of mobile application from skava to cloud (Google Cloud) by making the chunk of code to

## Involved in CI/CD process using GIT, Nexus, Jenkins job creation, Maven build and Create Docker image and use the docker image to deplay in gcloud clusters.

## Extensive Knowledge and hands-on experience implementing PaaS, laaS, SaaS style delivery models inside the Enterprise (Data center) and in Public Clouds using like AWS, Google Cloud, and Kubernetes etc.

## Provisioning environments for Engg and QA as per the requirements and chasing timelines.

## Hands-on experience setting up Kubernetes (k8s) Clusters for running microservices. Took several microservices into production with Kubernetes backed Infrastructure.

## Very good understanding of Microservices architecture, adapting Industry best practices for Microservices while we break down existing apps into micro services.

## Created dynamic routing/load balancing capability enabling large application scaling, used ingress rules and Ingress

## Controllers - Nginx.

## Point team player on Kubernetes for creating new Projects, Services for load balancing and adding them to Routes to be accessible from outside, Creation of Pods through new application and control the scaling of pods, troubleshooting pods through ssh and stackdriver/splunk logs.

## Worked on Data transfer from Google Cloud environments to Hadoop HDFS and Hive and Worked on Compute Engine, App Engine, Container Engine, Cloud Storage, Cloud SQL, Cloud Datastore, Cloud BigTable, BigQuery, Cloud DataFlow, Cloud DataProc, Cloud Datalab, Cloud Pub/Sub, Cloud Endpoints, and the Cloud SDK.

## Orchestrated CI/CD processes by responding to Git triggers, human input, and dependency chains and environment setup.

## Provide the permissions and required access to all ithe pub/sub topics arid sinks ta push/write the data to Stackdriver,

## Setup Alerting and monitoring using Stackdriver in GCP

## Create custom log metrics using Stackdriver logging and create charts and alerts using the custom log metrics.

## Developed a continuous deployment pipeline using shell scripts in Jenkins.

## Containerized al the ticketing related applications Spring Boot Java and Node./s applications using Docker.

## Working with engg and upstream teams Ike OpenApf on day-co-day environment issues on DEV and TEST env.

## Scheduled, deployed and managed contalner replicas onto a node duster using Kubernetes.

## Help provision and manage geloud container dusters with Chef and Puppet.

**Environment**: Google Cloud Platform(GCP), Kubernetes, GitHub, Jenkins, Docker, JIRA, Unix/Linux CentOS 7, NBash Shell Script, Python, Node.js, Apache Tomcat, MongoDB, SQL, Nginx, RHEL 7, Stackdriver, Splunk,

## Client: State of Florida

## Role: Python Developer June 2023 – August 2024

* Extensively worked on Python scripting and development. CSS is used to style Web pages, XHTML and XML markup.
* Deployed the project into Jenkins using GIT version control system.
* Created Git repository and added to GitHub project.
* Designed the User Interface using HTML5, XHTML, CSS, JavaScript, and AJAX for the website.
* Connected Flex from Backend Controller using different API services
* Extensive Knowledge and hands-on experience implementing PaaS, laaS, Saas style delivery models inside the Enterprise (Data center) and in Public Clouds using like AWS, Google Cloud, and Kubernetes etc.
* Developed the back-end web services using Python and Django REST framework.
* Performing Functional testing, regression testing, integration testing, and communication testing
* Installed Witbe, Python, Jira, test Rail as part of server setups. Builted AWS server for deployment and data processing.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins and GitHub, Nexus, Maven and AWS AMI's.
* Built various Flash mp3 players with ActionScript 3 reusable object code. Troubleshoot object classes for ActionScript/AMFPHP to optimize image compression.
* Worked on numerous Python modules. Built dbcontext, runcontext and other python objects that's reused by application.
* Optimized the code using smart pointers, profilers and C++ Standard template library.
* As Full Stack developer, created a custom CMS built using Django, AWS (Amazon web service), REST, Json with JavaScript, Query, AJAX components, worked closely with designer. Converted Photoshop images into XHTML/CSS.
* Created many reports using xirt/xlwt python packages and reportlab-2.7/3.3. Used JSON and Simple/SON modules of python to call webservices.
* Deployed Django web application in Apache webserver and Carpathia's cloud operations.
* Written numerous Django views (class based) and templates for page rendering.
* Build JSON objects using the framework which will be used by javaScript to control the flow of the page. Resolved performance related issues using efficient coding.
* Views and Templates were developed with Python and to create a user-friendly website interface Django's view controller and template language is used.
* Developed Ul using CSS, HTML, JavaScript, AngularS, JQuery and JSON. Developed dynamic webpages through HTML5, CSS JavaScript and AJAX.
* Involved in Developing a Restful API'S service using Python Flask framework.
* Worked on a resulting reports of the application and Tableau reports. Deployed production site using Apache Servers with mod Python and AWS
* Knowledge of the Software Development Life Cycle (SDLC, Agile and Waterfall Methodologies.
* Expertise on using python libraries like OS, pickle and SQLite. Built vagrant/docker boxes to work on dev and test environment.
* Extensive experience in web application development using Python, Django and web technologies (HTML, HTML5, DHTML, CSS, CSS3, XML and JavaScript) to create scalable and robust common components which can be used across the whole framework.
* Designed and developed Database management using MYSQL.
* Developed Python modules to extract data from MYSQL database.
* Wrote and executed various MySQL database queries from Python-MySQL connector and MySQLdB package.
* Views and Templates were developed with Python and Bash scripting and to create a user-friendly website interface
* Django's view controller and template language is used.

**Environment**: Python 2.7, Django 1.7, HTML5, CSS, XML, C++, numpy, pandas, KML, SQL, AWS, JavaScript, Git Hub, Angular JS, JQuery, CSS Bootstrap, Selenium integration testing, Ant, PyUnit, Maven, Git, ActionScript 3.0, Angular.js, Flex, Jenkins, Linux, RESTful, MS SQL Server, Ubuntu server, Windows 12 Server, Amazon s3, Jenkins, Map Box, SQL, Mongo DB, GitHub, Bit Bucket, Linux, and Windows.

## Client:

## Role: Python Developer October 2021 – April 2023

## Worked extensively on Multi-threading and Concurrency for implementing Batch Job Scheduling.

## Developed entire frontend and back end modules using Python on Django Web Framework with GIT. Used HTML, CSS 5, Query, JSON and JavaScript for frontend applications.

## Managed our servers in development, testing, and production.

## Used Linux profiler Valgrind for optimization of code.

## Involved in development using C++, bug fixing and unit testing of the Layout commands.

## Extensive use of version controller Team Foundation Server (FS), Programmed the components using C/C+.

## Software release to internal clients by compiling the code into C/C++ libraries and implementing the APIs.

## Automated RabbitMQ cluster installations and configuration using Python/Bash.

## Responsible for development and enhancements of all the modules of rail docs and have them running in the design team for project structure.

## Used Django Database APl's to access database objects. Wrote python scripts to parse XML documents and load the data in

## database.

## Worked heavily on Flex Data Grid and Flex Data Services Components.

## Strong Designing of Flex Ul components as well as creating and skinning of custom Flex components.

## Responsible for debugging and troubleshooting the web application. Developed Flex based applications, debugging and deployment

## Designed complex application database SQL statements for querying, updating and reporting using Python Database Connector.

## Establish the process and application improvement initiatives with business and enterprise to handle the growing data of our application.

## Worked on Defects and Service Requests based on customer-driven priorities and work with team at offshore to deliver them.

## Developed in Windows and going to deploy it in Linux server.

## Build SQL queries implementing functions, packages, views, triggers, and tables.

## ⁠• Rewrite existing Java, C++ application in Python.

## Performed database operations and queries using MySQL.

## Developed and designed automation framework using Python and Shell scripting.

## Developed the project in Linux environment.

## Developed in Windows and going to deploy it in Linux server.

## Worked on data exchange from website using XML, JAVA and Web Services.

## Used Python scripts to update content in the database and manipulate files.

## Generated Python Django Forms to record data of online users.

## Environment: MySQL, Git, RSpec, Selenium, C++, Inactive, Python, Flex, ActionScript 3.0, MySQL, Linux, HTML, XHTML, CSS, AJAX, JavaScript, SQL, MySQL, Apache Web Server, UNIX.

## Client:

## Role: Python Developer May2020 – September 2021

## Used the Django Framework to develop the application.

## Implemented web applications in Flask and spring frameworks following MVC architecture.

## Used Python to place data into JSON files for testing Django Websites.

## Updated and manipulated content and files by using python scripts.

## Implemented web applications in Flask and spring frameworks following MVC architecture.

## Used Django configuration to manage URLs and application parameters.

## Worked on Python Open stack API&#39;s.

## Used Python scripts to update content in the database and manipulate files.

## Generated Python Django Forms to record data of online users

## Used Python and Django to create graphics, XML processing, data exchange, and business logic implementation

## Participated in the requirement gathering and analysis phase of the project in documenting the business

## requirements.

## Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval.

## Developed tools using Python, Shell scripting, XML to automate some of the menial tasks.

## Used HTML, CSS, jQuery, JSON and JavaScript for front-end applications.

## Built various graphs for business decision-making using Python Matplotlib library.

## Wrote and executed various MYSQL database queries from Python using Python-MySQL connector and MySQLdB package.

## Involved in the development of Web Services using REST for sending and getting data from the external interface in the json format.

## Worked on rebranding the existing web pages to clients according to the type of deployment.

## Worked on updating the existing clipboard to have the new features as per the client&#39;s requirements.

## Used many regular expressions to match the pattern with the existing one.

## Skilled in using collections in Python for manipulating and looping through different user-defined objects.

## Worked on the development of SQL and stored procedures on MYSQL.

## Analyzed performance test requirements and developed test plans and have done debugging to understand test

## objective requirements

## Performed troubleshooting, fixed, and deployed many Python bug fixes of the two main applications that were the main source of data for both customers and the internal customer service team.

## Environment: Python, Django, Flask, Java, Angular.js, Bootstrap, AWS, Bash, PyQt, XML, Shell Scripting, MySQL, HTML,XHTML, CSS, AJAX, JavaScript, Jenkins, Apache Web Server, Linux.

## Reliable Soft Technologies Pvt Ltd, India 2019 January - April 2020

## Jr. Python Developer

## Involved in reviewing and understanding the Business requirements.

## Involved in entire lifecycle of the projects including Design, Development, and Deployment, Testing and

## Implementation and support.

## Wrote scripts to Import and Export data to CSV, EXCEL formats from different environments using Python

## and made a Celery action using REST API call.

## Designed the user interactive web pages as the front-end part of the web application using various web

## technologies like HTML, JavaScript, jQuery and implemented CSS framework Bootstrap for better

## appearance and feel.

## Developed remote integration with third party platforms by using RESTful web services.

## Developed web services that make database calls for inserts, updates, and select queries.

## Developed Unit, Integration and Performance Test Cases using Junit, Selenium and Rational Function

## Tester.

## Improved code reuse and performance by making effective use of various design patterns.

## Used Python library Beautiful Soup for webscrapping.ss.

## Fetched twitter feeds for certain important keyword using python-twitter library.

## Managed large datasets using Panda data frames and SQL.

## Wrote and executed various MYSQL database queries from python using Python-MySQL connector and

## MySQL dB package.

## Deployed the project into Heroku using GIT version control system.

## Developed methods for Create, Read, Update and Delete (CRUD) in Active Record.

## Used Django evolution and manual SQL modifications was able to modify Django models while retaining all

## data, while site was in production mode.

## Proficient with Java and Android SDK version Android 1.5 to Android 7.0 (Gingerbread, Honey comb, Ice

## cream sandwich, Jellybean, Kit Kat, Lollipop, Marshmallow and Nougat).

## Expertise in creating and developing applications for android operating system using Android Studio,

## Eclipse IDE, SQLite, Java, XML, Android SDK and ADT plugin.

## Scripted simulation hardware for testing using the Simics simulator.

## Execute Validation Process through SIMICS.

## Worked on Angular.js to augment browser applications with MVC capability.

## Environment: Python, Celery, mod python, Angular.js, JQuery, JavaScript, AJAX, HTML/XHTML, XML, MsSQL server, T-SQL, Jasper, GIT, Reports, RESTful, Linux, Android OS Android 1.5 to Android 6.0

## EDUCATION

**Southern Arkansas University, Magnolia, Arkansas**

*Master of Science in Computer Information Science*

**Bapatla Engineering College, Bapatla, India**

*Bachelor’s degree in Information Technology*