**Smaran Sai**

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**PROFESSIONAL SUMMARY:**

* Around **8+** yearsof experience in Analysis, Design, Development, Management, and Implementation of various stand-alone, client-server enterprise applications in **Python.**
* Experience object-oriented programming (OOP) concepts using Python, Pyspark, C++ and PHP.
* Experienced with full software development life cycle, architecting scalable platforms, object-oriented programming, database design, and agile methodologies.
* Proficient in writing SQL Queries, Stored procedures, functions, packages, tables, views, and triggers using relational databases like **Oracle and MySQL.**
* Experience **object-oriented programming (OOP) concepts** using **Python and Java.**
* Experienced in developing web-based applications using **Python, DJANGO, Flask, FastApi, Vue.js, React.js, CSS3, and HTML5.**
* Experience with **Web Development, Python,** and the **Django** framework.
* Expertise in **React JS** and working with **React Flux** architecture
* Experienced in **Python's** modules **NumPy, and Matplotlib** for generating complex graphical data, creating histograms, etc.
* Experience with **Report lab, NumPy, Matplotlib, HTTPLib2, Urllib2 and Pandas python libraries** during development lifecycle.
* Experience in working with AWS VPC, EC2, and S3 cloud platform. Created multiple VPC, Subnets in AWS as per requirements.
* Hands on Experience in AWS like Amazon EC2, Amazon S3, Amazon Redshift, Amazon EMR and Amazon SQS, glue, Athena, lambda, etc.
* Experience in developing web applications implementing **MVC** architecture using **Django framework and SQL Alchemy.**
* Hands-on experience in working with **WAMP (Windows, Apache, MYSQL, Python/PHP) and LAMP (Linux, Apache, MySQL, Python/PHP) Architecture.**
* Good experience in developing web applications and implementing **Model View Control (MVC) architecture** using server-side applications like **Django, Flask, and Pyramid.**
* Hands-on experience in working with **Python ORM libraries** including **Django ORM, and SQL Alchemy.**
* Working knowledge in a multi-tiered distributed environment, OOAD concepts, and a good understanding of the **Software Development Lifecycle (SDLC).**
* Good knowledge of web services with protocols **SOAP and REST.**
* Experience in using various version control systems like **CVS, Git, GitHub, and Amazon EC2** and deployment using **Heroku.**
* Highly motivated, quality-minded developer, with proven ability to deliver applications against tight deadlines.
* Possess good interpersonal, and analytical presentation Skills, and the ability to work in Self-managed and Team environments.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Languages** | Python, TypeScript, JavaScript, SQL, Bash scripting, Ruby |
| **Web Frameworks** | Django, Flask, Angular.js, vue.js, React.js |
| **Databases** | Oracle, MYSQL, PostgreSQL, SQLite, MongoDB |
| **Testing Tools** | Pytest, unit test, Cucumber |
| **Version Control** | GIT, GITHUB |
| **Cloud and Big Data** | Amazon web services (EC2, S3, RDS, Glue, Lambda, Kinesis), Apache Hadoop, Spark, Splunk |
| **CI/CD Tools** | Jenkins, Urban Code Deploy, Docker, Kubernetes, Ansible |
| **Development Tools/IDE** | Sublime Text, Jet Brains Pycharm, Visual Studio Code, ATOM |
| **Package Manager Tools** | Pip, pipenv, yarn, npm |

**EDUCATION:**

* Bachelors in Computer Science

**PROFESSIONAL EXPERIENCE:**

**Prezi, San Francisco, CA (Currently in New Haven, CT) January 2022 – Till Date**

**Sr. Python Developer**

**Responsibilities:**

* Utilized **python virtualenv** to set up an isolated **python package environment**
* Created **Django models** from existing **databases** and added **new models**
* Used **Django built-in ORM** to map **models** to **MySQL Database tables.**
* Used **Django Rest Framework** to send **APIs** between the **back** and **Front end**.
* Used **JSON Web Tokens (JWT)** to secure **passing data between front** and **back end.**
* Used **Django sessions** to store the state of the **app** to allow **reusable user interactions.**
* Developed a strong foundation in implementing **OOP Design Principles like inheritance, abstraction, polymorphism,** and **encapsulation** to make **extensible, maintainable** and **reusable code** using **Python** **Django.**
* Processed **data** using **data structures** like **Iterators, Generators, List Comprehension, Dictionary Comprehension, and Generator Expressions.**
* Built a new CI pipeline and performed testing and deployment automation with Docker, Jenkins and Puppet
* Redesigned and redeployed the Nagios implementation. Nodes automatically added/removed themselves via Puppet
* Use **ng-template** and **ng-model** to create the **form** for **pop-ups**
* Created **angular directives** to simplify repeated **functionalities**
* Used **pipes, directives, components** and **services** in **angular** to create a **functional** **application**
* Developed Ruby on Rails web applications using MongoDB and back-ground processes using Rescue and Redis
* Expertise in developing web-based applications using libraries and frameworks like Bottle, AngularJS, Bootstrap, jQuery, Ruby on Rails, Knockout.js, Node Js, Backbone.js, React JS, D3 JS and RequireJS.
* Handled built-in **angular directives** such a**s NgChange, ngClick, ngInit, ngModel, ngDisabled**
* Experienced working with **angular forms** using **Reactive Forms, and Template-Driven Forms**.
* Optimized the website performance using **Angular** on the **front end** for designing a **dynamic Single Page Application with front end technologies like HTML, CSS, Bootstrap, JavaScript, and TypeScript**
* Designed dynamic loading in **Angular using variable interpolation, property binding, event binding,** and **2 way binding, Ng Directives, life-cycle hooks, and dependency injection to create reactive and template driven forms.**
* Utilized the get method in **\_HTTP Client module** to get and retur**n Web Services** as **observables** that are later invoked and injected directly into individual **Angular Components** using the **subscribe method** to listen for **observables dynamic objects** requiring **dependency injection.**
* Created the Application using **React.JS** and **Node.js** libraries NPM, gulp directories to generate desired view and flux to root the URL's properly
* Developed front end using Angular.js, **React.JS**, Node.js, bootstrap.js, backbone.js, JavaScript, where back end is java with REST webservice
* Used **Angular** built-in directives such as **NgModel** to perform **two-way data binding** between **controller** and **view files in a component to update data created from user events in real time.**
* Experienced Web deployment using **AWS** with **EC2, RDS, S3 buckets, AWS Lambda function, SNS Topics, Route 53, load balancing** and **auto scaling**
* Configured various performance **metrics** using **AWS Cloud watch** & **Cloud Trial**
* Wrote various **Lambda services** for **automating** the **functionality** on the **Cloud.**
* Experience building and securing the **Infrastructure** on **AWS** using **IAM, KMS, Cognito, API Gateway, Cloud Trail, Cloud Watch, Config, Security Groups, etc.**
* Experienced in designing **cloud models** for **Infrastructure-as-a-service (IaaS), Platform-as-a-service (PaaS), and Software-as-a-Service (SaaS).**
* Created **AMIs** for mission critical production servers for **backup** and **maintained** the **user accounts (IAM), RDS, Route 53, VPC, RDB, DynamoDB, SES, SQS** and **SNS services** in **AWS cloud.**
* Reviewed and improved the **code quality** using **GitHub pull requests, and meetings among peers.**
* Deployed and configured **Git repositories** with **branching, forks, tagging, and notifications.**

**Environment:** Python, PyCharm, VS Code, Django, Angular, GitHub, AWS

**Hyosung Corp, New York, NY Jul 2020 to Dec 2021**

**Role: Python Developer**

**Responsibilities:**

* Gathering requirements, system analysis, design, development, testing and deployment.
* Building database Model, APIs and Views utilizing Python, in order to build an interactive web-based solution.
* Taken part in the entire lifecycle of the projects including Design, Development, and Deployment, Implementation, Testing and support. Created project designs utilizing MVC architecture components.
* Setting up Python REST API framework using Django.
* Implemented Docker containers to create images of the applications and dynamically provision slaves to Jenkins CI/CD pipelines.
* Developed many features for dashboard using Ruby on Rails, Bootstrap, CSS, react and JavaScript(J2EE
* Developed multi-threaded standalone app in Python, to view Circuit parameters and performance.
* Handled development and management of front-end user interfaces with help of HTML, CSS, JQuery and JavaScript.
* Used EC2 Container Service (ECS) to support Docker containers to easily run applications on a managed cluster of Amazons EC2 instances.
* Develop consumer-based features and applications using Django, HTML, Python Behavior Driven Development (BDD) and pair-based programming.
* Developed and tested many features in an agile environment using Python, Django, HTML5, CSS, JavaScript, Bootstrap and Rspec.
* Worked with View Sets in Django-REST framework for providing web services and consumed web services performing CRUD operations.
* Designed and Developed User Interface using front-end technologies like HTML5, CSS3, JavaScript, Bootstrap and JSON.
* Integrate the dynamic pages with Angular.JS and JQuery to make the pages dynamic.
* CMS application was an internal application, used by subject matter experts (SME) for curation of data for accuracy.
* CMS involved ingesting data from heterogeneous sources, producing directly renderable data as a RESTful service.
* UI interactions is done with the help of JQuery.
* Used GIT for Source code control and JIRA for Bug tracking.
* Implemented centralized logging using Elastic Search, Log Stash and Kibana (ELK). Added Redis in between client and server log stash nodes for caching/persistence to enable real-time online updates to the log stash configuration.
* Worked in a Linux environment for implemented the application.
* Written Scripts to establish continuous workflows from different teams providing data.
* Worked with various Python IDE's using PyCharm, Python IDLE, Eclipse 4.x, and IntelliJ.
* Involved in development of Python based Web Services using REST for sending and getting data from the external interface in the JSON format and to track sales and perform sales analysis using Django and PostgreSQL.
* Developed Merge jobs in Python to extract and load data into MySQL database.
* Used JQuery for selecting DOM elements when parsing HTML.
* Developed SQL Queries, Stored Procedures, and Triggers Using Oracle, SQL, and PL/SQL.
* Developed Python batch processors to consume and produce various feeds.
* Design and documentation of REST APIs using Django Rest framework for collection and retrieval of high-volume data which is results of search query.

**Environment:** Python, Django, HTML, CSS, JavaScript, AJAX, MySQL, MVC, JIRA, Angular.JS, JQuery, IntelliJ, SQLite, SQL Server, Haystack, Virtualenv, GIT, CI/CD, RESTful, Unix and Linux, Numpy, PHP, AWS, Pandas.

**Client: USAA, Plano, TX Dec 2019 to June 2020**

**Python Developer**

**Responsibilities:**

* Developed test scripts using python and **PostgreSQL** for the data validation.
* Written the python scripts to load the data in to the tables (Data Injection).
* Used **Autosys and Move IT** tools to place the file from on premise to AWS-S3 buckets.
* Written the jil scripts to **AutoSys jobs** and scheduled jobs on every business day.
* Used celery scheduler to places the file into tables from **AWS-S3.**
* Used **AWS** Athena to query the data on top **s3 bucket (files in inbound)** which helps the business people for data analysis.
* Written **PostgreSQL** sequels according to the business transformations to place the data in to respective tables.
* Created the **Splunk** dashboard for run time errors directed from **AWS** cloud using kinesis.
* Involved in software development life cycle (**SDLC**) of tracking the requirements, gathering, analysis, detailed design, development, system testing and user acceptance testing.
* Actively involved in developing the methods for **Create, Read, Update and Delete (CRUD**) in Active Records.
* Developed entire frontend and backend modules using Python on **Django Web Framework** by implementing **MVC** architecture.
* Rewrote existing **Python/Flask** module to deliver certain format of data.
* Created script in python for calling **REST APIs.**
* Deployed **Django** web application in **Apache webserver** and **Carpathia** cloud web deployment.
* Installed **Kafka** manager for consumer lags and for monitoring**kafka** metrics also this has been used for adding topics, Partitions etc.
* Involved in designing user interactive web pages as the frontend part of the web application using various web technologies like **HTML, JavaScript, JQuery** and implement **CSS** for better appearance and feel.
* Used **Celery** as task queue and **RabbitMQ, Redis** as messaging broker to execute asynchronous tasks.
* Worked on **MongoDB** database concepts such as locking, transactions, indexes, Sharding, replication, schema design.
* 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.

**Environment:** Python, Django Web Framework, HTML, CSS, NoSQL, JavaScript, JQuery, Sublime Text, Jira, GIT, py Builder, unit test, Firebug, Web Services.

**Web trace Software Solution Pvt. Ltd, India August 2016 to June 2018**

**Python Developer**

**Responsibilities:**

* Gathered and analyzed the requirements and converted them into User Requirement Specifications and Functional Requirement Specifications for the designers and developers to understand them as per their perspective.
* Worked on object oriented programming (OOP) concepts using **Python and Linux**.
* Developed front end using Angular.js, React.JS, Node.js, bootstrap.js, backbone.js, JavaScript, where back end is java with REST web service.
* Created a Rich Single Page Application using HTML, CSS, JSP, JSON, Angular Js, React.js, Node.js, bootstrap.js, backbone.js
* Experience with **JSON** based **REST** Web services and Amazon Web Services (**AWS**).
* Added support for Amazon AWS and RDS to host static/media files and the database into **Amazon Cloud**.
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on **MySQL** and **PostgreSQL** database.
* Worked in **Agile** and **waterfall** methodologies with high quality deliverables delivered on-time.
* Experience with continuous integration and automation using **Jenkins**.
* Experience with **Unit testing**/ Test driven Development (**TDD**), Load Testing.
* Developed the required XML Schema documents and implemented the framework for parsing **XML** documents.
* Involved in Unit testing and Integration testing.
* Designed Interface using Bootstrap framework.
* Experience with working on multiple environments like development, testing, production. Excellent analytical and problem-solving skills and ability to work on own besides being valuable and contributing team player.

**Environment:** Python, PyQuery, MySQL, HTML, CSS, Ajax, Web Services (SOAP), XML, PL/SQL, and Oracle SQL Developer

**Hidden Brains InfoTech, India July 2013 to June 2016**

**Python Developer**

**Responsibilities:**

* Designed and developed entire backend modules using **Python** and **Django REST** Web Framework
* Analyzed architecture, relationship between systems, and systems flow of end-to-end designs.
* Developed systems and applications using complex algorithms to deliver business functions or architectural components.
* Designed **REST/HTTP APIs**, including **JSON** data formats and API versioning strategy
* Responsible for writing Constraints, Indexes, Views, Stored Procedures, Cursors, Triggers and User Defined Function.
* Contribute to the design and development of application features.
* Integrated applications with designing database architecture and server scripting, studying & establishing.
* Developed a fully automated continuous integration system using **Jenkins**.
* Implement product features with test-driven development.
* Responsible for managing large databases using **MySQL**.
* Familiar with **Docker-API**
* Maintained and improved existing Internet/Intranet applications.
* Worked directly with project owners across the business and plan, manage and execute key projects.
* Experience on multi-threading, data structures, **algorithms**, object-oriented design, and design patterns.
* Communicate and follow through with technical leads on application stories.
* Presenting weekly demos to manager and team about the added functionality.

#### Environment: PyCharm, Python, Django, RESTAPI, SQL, JSON, GIT, Docker, JENKINS