**Sai Kumar A**

**Sr.Python Developer**

**https://www.linkedin.com/in/sai-kumar-82324b289/**

**Green Card**

**Email: kumarsai080407@gmail.com , Mob: 717-450-7989**

**Professional Summary:**

* Highly skilled and results-driven **Full Stack Python Developer** with over **8+ years** of experience delivering robust and innovative web applications.
* Experienced with full Software Development Lifecycle (SDLC), architecting scalable platforms, object-oriented programming, database design and agile methodologies.
* Good experience in developing web-based applications using **Python, Django, XML, CSS, HTML, Java, JavaScript, jQuery and AngularJS.**
* Demonstrated expertise in Python frameworks such as **Django** and **Flask**, coupled with in-depth knowledge of modern front-end frameworks like **React**.
* Having experience with **object-oriented programming (OOP)** concepts using **Python.**
* Experience in developing applications for different scientific, mathematical, and statistical calculations using **NumPy, Pandas** and other libraries.
* Experienced in deploying applications on cloud platforms like **AWS** and **Heroku**, ensuring seamless scalability and reliability.
* Experienced working with various **Python** Integrated Development Environments like **Net Beans, PyCharm.**
* Proven track record of successfully leading development teams, conducting code reviews, and mentoring junior developers.
* Committed to staying abreast of industry trends and best practices, while consistently delivering high-quality code on time and within budget.
* Proficient in writing SQL Queries, Stored procedures, functions, packages, tables, views, triggers using relational databases like **Oracle** and **My SQL**.
* Passionate about tackling complex challenges and driving continuous improvement in software development processes.
* Continuously exploring new technologies and staying up-to-date with the latest trends in the Python ecosystem to deliver **innovative** and **competitive solutions**.

**Technical Skill Set**

|  |  |
| --- | --- |
| Languages | Python , Java, C, C++. Shell Script, SQL, PHP |
| Framework/Tools | Django, Beautiful soup, Flask, Pandas, PyUnit, PyQuery, NumPy, SciPy, Matplotlib, Map, Filter, Lambda, |
| Databases | MS SQL, MySQL, MongoDB,Oracle |
| Web Technologies | XML, CSS, HTML, Django, JavaScript, React, Angular, Vue.js, Node.js, JQuery, MVC3, Bootstrap, RESTful, AJAX, and JQuery. |
| Web Services | SOAP, REST |
| Tools & IDE | Eclipse, PyDev, Django PyCharm, PyScripter, Spyder, PyStudio |
| Methodologies | Agile, Scrum |

**Professional Work Experience:**

**Client: Piper’s Sandler’s Aug 2021 – Present**

**Role: Sr.Python Developer**

**Locations: Minneapolis, MN**

**Responsibilities:**

* Worked with full **software development life-cycle (SDLC),** architecting scalable platforms, object-oriented Programming, database design and agile methodologies
* Developed Views and Templates with **Python** and using **Django's** view controller and template language for the Web application. Gathering requirements and translating the business details into technical design.
* Good hands-on experience with software development in Python (libraries used: Beautiful Soup, NumPy, SciPy, Matplotlib, Pandas data frame, MySQL DB for database connectivity).
* Development of **Python APIs** to dump the array structures in the Processor at the failure point for debugging.
* Implemented **REST APIs** in Python using **micro-framework** like **Django** with **SQL Alchemy** in the backend for management of data center resources on which OpenStack would be deployed.
* Implemented **Multithreading** module and **web server** using **Python.**
* Developed various Python scripts to find vulnerabilities with **SQL Queries** by doing **SQL injection,** permission checks and performance analysis.
* Wrote **Python code** embedded with **JSON** and **XML** to produce **HTTP GET** request, parsing **HTML** data from websites.
* Migrated the **Django** database from **SQLite** to **MySQL** to **PostgreSQL** with complete data integrity.
* Used **Django Rest** framework for creating **REST APIs** and interacted with **Jira** using **Jira Rest API.**
* Extensive experience with Amazon Web Services (AWS), Open stack, Docker Puppet, Chef, Ansible, AWS Cloud Formation, AWS Cloud Front and Experience in using containers like Docker and familiar with Jenkins.
* Implemented AWS solutions using E2C, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances.
* Designed and developed the **UI** of the website using **HTML5, XHTML, AJAX, CSS3** and **JavaScript.**
* Designed and developed the framework to consume the web services hosted on **AWS.**
* Worked in Data Warehouse and Business Intelligence Projects along with the team of Informatica (ETL).
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on SQL and PostgreSQL database.
* Performed troubleshooting, fixed and deployed many Python bug fixes for two main applications that were a main source of data for both customers and internal customer service team.
* Wrote and executed various **MY-SQL** database queries from **Py.**
* Experience configuring and developing with different Database servers including MySQL, MSSQL, Oracle and Mongo Db.
* Followed **AGILE** development methodology to develop the application.

**Environment:** Python 3.x, Django, Http, HTML5, XML, XHTML, AJAX, CSS3, JavaScript, AWS, REST, Panda, SQL, PostgreSQL, Agile and Windows.

# Client: 7/11 June 2020 - July 2021

# Role: Python Developer

**Location: Dallas, TX**

**Responsibilities:**

* Involved in building database Model, APIs and Views utilizing **Python**, in order to build an interactive web-based solution.
* Developed views and templates with **Python** and **Django's** view controller and templating language to create a user-friendly website interface.
* Proficient in utilizing Python frameworks such as Flask, Django, or FastAPI to build scalable and modular microservices.
* Implemented the data using various machine learning libraries like Numpy, Scipy and Pandas in Python scripts for the perfect analysis of data.
* Responsible for designing and developing **REST web services** in **Python** using **Flask** and **flask-restful**
* framework.
* Used **Python** to extract information from **XML files.**
* Written **Python scripts** to **parse JSON** documents and load the data in database.
* Implemented MVC architecture in developing the web application with the help of **Django framework.**
* Developed web application using the **Python** and **Django REST framework** and deploy the **API.**
* Involved in building database Model, **REST APIs**, and Views utilizing **Python** technologies to build web-based applications.
* Integrated the dynamic pages with **Angular.JS** and **JQuery** to make the pages dynamic.
* Used **Python** scripts to update the content in database and manipulate files to the required formats as required.
* Generated **Python Django** forms to maintain the record of online users and providing the authentication and security to the forms/applications.
* Used **Python and Django** for dynamically displaying the test block documentation and other features
* **Python** code using a web browser.
* Used **Amazon EC2** command line interface along with Bash/Python to automate repetitive work.
* Used Amazon Elastic Beanstalk with **Amazon EC2** to deploy project into AWS.
* Wrote modules in Python to connect to **MongoDB** with **PyMongo** and doing **CRUD** operations with MongoDB.
* Experience in developing **ETL** data pipelines using pyspark on **AWS EMR**.
* Used **Python** programming and **Flask** for the backend development, **Bootstrap** and **Angular** for frontend connectivity and **My SQL** for database.
* Used **Pandas** package to retrieve and analyze data.
* Involved in development of **Web Services using SOAP** for sending and getting data from the external interface in the **XML** format.
* Involved in writing **SQL Queries** and implementing stored procedures, functions, packages, tables, views, Cursors, triggers.
* Utilized **Agile process** and **JIRA issue** management to track sprint cycles.
* Involved in requirement gathering and analysis phase of the project in documenting the business requirements by conducting workshops/meetings with various business users.

**Environment:** Python, Django, Flask, HTML5, CSS3, JavaScript, XML, My SQL, Bootstrap, SOAP, Angular.JS, Pandas, JQuery, JSON, SQL, Jira, REST, Agile and Windows.

**Client: JPMORGAN CHASE Apr 2018 - May 2020**

**Role: Python Developer**

**Location** **TAMPA, FL**

# Responsibilities:

* Involved in building database Model, APIs and Views utilizing **Python**, in order to build an interactive web-based solution.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript and jQuery**.**
* Developed GUI using Django and Python for dynamically displaying the test block documentation and other features with Python code for a web browser.
* Implemented AJAX for dynamic functionality of a Webpages for front end applications.
* Developed and tested many features for dashboard, created using Bootstrap, CSS, and JavaScript.
* Used and Python Django to interface with the jQuery UI and manage the storage and deletion of content. Have written scripts to parse JSON documents and load the data in database.
* Developed entire frontend and backend modules using on Django including Web Framework using Git.
* Creating Application on Splunk to analyze.
* Developed Splunk infrastructure and related solution for application toolsets.
* Manage Splunk configurations files like input, props, transforms and lookups.
* Used **GIT version control** tool to coordinate team-development.
* Used Agile Methodology and SCRUM Process.
* Setup automated cron jobs to upload data into database, generate graphs, bar charts, upload these charts to wiki and backup the database.
* Responsible for debugging and troubleshooting the web application.
* Used JIRA for bug tracking and issue tracking.
* Maintained the versions using GIT and sending the release notes for each release.

**Environment:** Python, DJango, HTML, AJAX, CSS, JavaScript, Java, PyQt, XML, JQuery, JSON, GIT, MySQL, XML Schema, DOM and windows.

# Client: Credit Suisse Sep 2016 - Mar 2018

# Role: Python Developer

# Location: Raleigh, NC

**Responsibilities:**

* Participated in the development of application architecture and blueprints to define application components, platforms, interfaces and development tools.
* Designed and developed web applications using Django web framework for python models or scripts.
* Utilized Django Web Framework for creating web applications utilizing model view control (MVC).
* Developed the application using the Test-Driven methodology and designed the unit tests using Python Unit test framework called PyUnit.
* Developed Restful Microservices using Django and deployed on AWS servers using EBS and EC2.
* Created a python, Django web-based application using Python scripting for data processing and MySQL for database, HTML5, CSS3, JQuery for data visualization.
* Worked on front end frameworks like CSS Bootstrap for responsive web pages and implemented a presentation layer using a CSS framework, Wire-Framing, and HTML and worked on server-side applications with Django using Python programming.
* Used Angular.JS built-in directives, custom directives and services for developing interceptor and complex UI data table grids.
* Worked on developing Web Services with Python programming language and processed large datasets with Spark using PySpark.
* Provided GUI utilizing PyQt for the end user to create, modify and view reports based on client data.
* Automated the existing scripts for performance calculations using NumPy and SQL Alchemy and implemented machine learning schemes using python libraries like SciPy.
* Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval
* Created Business Logic using python to create Planning and Tracking functions.
* Used Amazon Web Ser vices (AWS) for improved efficiency of storage and fast access.
* Wrote AJAX framework to transform Datasets and Data tables into HTTP-serializable JSON strings.
* Used Python and Django to interface with the JQuery UI and manage the storage and deletion of content.
* Involved in writing SQL queries implementing functions, triggers, cursors, object types, sequences, indexes etc.
* Followed AGILE development methodology to develop the application.
* Conducted weekly meetings with the development and testing team to relay any changed requirements and updates on the development and testing.

**Environment:** Python, Django, PyUnit, PyQt, PySpark, AWS, Bootstrap, HTML5, CSS3, JavaScript, Angular.JS, Numpy, Pandas, Matplotlib, AJAX, JQuery, JSON, SQL, Agile and Windows.

# Client: Trinet July 2014 - Aug 2016

# Role: Python Developer

# Location: Tampa, FL

# Responsibilities:

* Responsible for analyzing various cross-functional, multi-platform applications systems enforcing python, best practices and provide guidance in making long term architectural design decisions.
* Involved in development of real-time multi-tasking systems using Python.
* Involved in developing a Restful API'S service using Python Django framework.
* Developed the UI of the application using Django and implemented MVT framework.
* Developed web-based applications using Python, Django, XML, CSS3, HTML5, and DHTML.
* Implemented dynamic page elements and form error validations using Angular.JS.
* Utilized PyUnit, the python unit test framework for testing the functionality of the application.
* Worked on Python's modules: NumPy, Matplotlib etc. for generating complex graphical data, creation of histograms etc.
* Tested Various Regular expressions using URL Dispatchers in Django.
* Wrote scripts in Python for extracting data from HTML file.
* Implemented AJAX for dynamic functionality of a Web Pages for front end applications.
* Parsed various file formats including XML and JSON and loaded into MSSQL Server database with Python XML and JSON modules.
* Created database using MySQL, wrote several queries to extract data from database.
* Involved in organizing meetings to know the needs of clients for the Enterprise solution Implementation.

**Environment:** Python, Django, HTML5, CSS3, JavaScript, NumPy, Matplotlib, XML, AJAX, JSON, MySQL, Agile and Windows.

**Education Details**

* Bachelors in computer science engineering, Swami Rama Nanda Tirtha Institute of Science & Technology, Telangana ,2014