**PYTHON DEVELOPER**

**SAI J**

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**Professional Summary:**

* Overall 8+years of experience in software development and competent in web application developing using **Python, C and C++**.
* Good experience of software development in Python (libraries used: Beautiful Soup, NumPy, SciPy, matplotlib, python-twitter, Pandas data frame, network, urllib2, MySQL dB for database connectivity) and IDEs - sublime text, Spyder, PyCharm, emacs.
* Experienced with full software development life-cycle (SDLC), architecting scalable platforms, object-oriented programming (OOPs), database design and agile methodologies.
* Developed the required XML Schema documents and implemented the framework for parsing XML documents.
* Excellent knowledge on Predictive Modelling using python and K-mean Clustering for Python Machine Learning Language
* Good experience in Shell Scripting, SQL Server, UNIX and Linux.
* Created Python contents to robotize AWS administrations which incorporate web servers, ELB, Cloud front dissemination, databases, security gatherings and application design.
* Experience in handling database issues and connections with SQL and NoSQL databases like MongoDB (2.6, 2.4) by installing and configuring various packages in python (Teradata, MySQL dB, MySQL connector, Pymongo and SQL Alchemy).
* Good experience in developing web applications implementing MVT architecture using Django, Flask, Webapp2 web application frameworks, with good understanding of Django ORM and SQL Alchemy.
* Successfully migrated the Django database from SQLite to MySQL to PostgreSQL with complete data integrity.
* Good experience in working with Amazon Web Services (AWS) like AWS EC2, S3, VPC, SES, ELB, EBS, RDS, Glacier, Dynamo DB etc.
* Excellent experience with Python development under Linux OS (Debian, Ubuntu, SUSE Linux, Red Hat Linux, Fedora).
* Experienced in following PEP8 coding standards across various projects and experience in Apache, Tomcat.
* Experienced in developing web-based applications using Python, Django, PHP, XML, CSS, HTML, Java Script and jQuery.
* Very strong full life cycle application development experience
* Having good experience in SALT Stack and Puppet for Deployment on Multiple platforms.
* Experience of Build and Deployment stage and utilization of Continuous Integration (CI/CD) apparatuses, construct arrangement, change history for discharges, Maintenance of assemble framework, computerization and smoke test forms, overseeing, designing, and keeping up source control administration frameworks.
* Installed and configured GIT and was responsible to work for commit, resolve conflict and merge, fetching code.
* Good Analytical and Problem-Solving skills and ability to work on own besides being a valuable and contributing team player.
* Practical experience with working on Multiple-Environments like Development, Testing, Production.
* Excellent Interpersonal and Communication skills, Efficient Time Management and Organization Skills, ability to handle Multiple-Tasks and work well in a Team-Environment.

**Technical Skills:**

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| **Programming Skills** | Python, C, C++. |
| **Web Technologies** | HTML/HTML5/CSS, PHP, JavaScript, XML, JSON. |
| **Web Framework** | Flask, Django, Pyramid |
| **Development Tools** | PyCharm, Notepad++, SVN, Eclipse, Sublime, Magento, Slack, Redis, SQL Alchemy. |
| **Operating Systems** | Windows7,8 & 10, Linux/Unix Ubuntu, MAC OS |
| **Python Libraries** | Panda, NumPy, Unit Test, SciPy, PyIMSL, Matplotlib, PyTables |
| **Methodologies** | Agile, SCRUM and Waterfall. |
| **Databases** | Microsoft SQL Server, Oracle, MySQL, Cassandra, PostgreSQL and NoSQL database MongoDB (2.6,2.4) |
| **Version Controls** | SVN, VSS, CVS, GitHub. |
| **Web Services** | AWS, SOAP, RESTful Webservices. |
| **Agile Methodologies** | TTD, SCRUM. |
| **Other Tools** | Eclipse, ANT Build, Putty, Visual Studio. |

**Professional Experience:**

**Client: - Ericsson, New Jersey**

**Role: Sr Python/Django Developer July 2016 to Present**

**Responsibilities:**

* Representation of the system in hierarchy form by defining the components, subcomponents Used **Django** framework for application development.
* Involved in preparing engineering specification with **OOA** and **OOD**. Used **UML** Tools to develop Use Case diagrams, Class diagrams, Collaboration and Sequence Diagrams, State Diagrams and Data Modeling.
* Developed spark code using Scala and spark -SQL/Streaming for faster testing and processing of data.
* Booting up nodes using prebuilt images on **Amazon EC2**.
* Bootstrapping **Amazon EC2** nodes with software you want running when your nodes boot up.
* Uploading, copying, downloading, and deleting files using **Amazon S3**.
* Assisted in reduction of cost and optimization of supplier selection for the **CRM** Applications.
* Created Restful micro services utilizing Flask and Django and sent on AWS servers utilizing EBS and EC2.
* Trained and documented initial deployment and Supported product stabilization / debug at the deployment site.
* Used several Python libraries like **Python, NumPy and Matplotlib**.
* Used **AJAX** and **jQuery** for transmitting **JSON** data objects between frontend and controllers.
* Designed and developed the UI of the website using **HTML, XHTML, AJAX, CSS** and **JavaScript**.
* Developed entire frontend and backend modules using **Python on Django Web Framework**.
* Wrote Python scripts to parse **XML** documents and load the data in database.
* Generated property list for every application dynamically using Python.
* Using **Subversion** version control tool to coordinate team-development.
* Responsible for debugging and troubleshooting the web application.
* Build all database mapping classes using **Django** models and **Cassandra**.
* Utilized **Pandas API** to put the information as time arrangement and forbidden organization for east timestamp information control and recovery.
* Designed and developed data management system using **MySQL**.
* Built various graphs for business decision-making using **Python matplotlib** library.
* Created **Python** and **Bash** tools to increase efficiency of call Centre application system and operations; data conversion scripts, **AMQP/RabbitMQ, REST, JSON, and CRUD** scripts for **API** Integration.
* Created server monitoring **daemon** with **Psutil**, supported by **Django** app for analytics which I created. Also researched big data solutions with **MongoDB** database.
* Fetched twitter feeds for certain important keyword using **Python -twitter** library.
* Experienced in **Agile** Methodologies and **SCRUM** Process.
* Worked in development of applications especially in **UNIX** environment and familiar with all the commands.
* Collaborated with internal teams to convert end user feedback into meaningful and improved solutions.

**Environment:**Python 2.7, Django 1.4, Spark, SciPy, AWS, Pandas, Bugzilla, SVN, C++, Java, jQuery, MySQL, Linux, Eclipse, Shell Scripting, HTML5/CSS. Red hat Linux, Apache, MongoDB.

**Client: - SWIFT, VA**

**Role: Python Developer Nov 2014 to June 2016**

**Responsibilities:**

* Developed backend modules using **Python** on **Django** Web Framework.
* Designed and developed Use- Case, Class and Object Diagrams using UML Relational Rose for Object Oriented Analysis (**OOA**)/Object Oriented Design techniques (**OOD**).
* Designed and developed data management system using **PostgreSQL**. Built application logic using Python.
* Used **Apache CouchDB** (NoSQL) in AWS Linux instance in parallel to **RDS MySQL** for storing and analysis.
* Used **Django API**’s for databases access.
* Implemented public segmentation using unsupervised machine learning algorithms by implementing k-means algorithm using **Spark**.
* Used **AWS** **RestAPI** gateway and connected with lambda functionality.
* Added support for **Amazon AWS S3** and **RDS** to host static/media files and the database into Amazon Cloud.
* Used Amazon Web Services (**AWS**) for improved efficiency of storage and fast access.
* Wrote **AJAX** framework to transform Datasets and Data tables into HTTP-serializable **JSON** strings.
* Participated in the complete **SDLC** process and used **PHP** to develop website functionally.
* Used Python to extract information from **XML** files.
* Provided **GUI** using **PyQt** for the end client to make, change and view reports considering customer information.
* Worked on development of **SQL** and stored procedures on **MySQL**.
* Participated in requirement gathering and worked closely with the architect in designing and modelling.
* Designed and developed a horizontally scalable **API’s** using Python Flask.
* Developed shopping cart for Library and integrated web services to access the payment(E-commerce)
* Designed **Cassandra** schema for the APIs.

**Environment:**Python, AWS, Linux, JavaScript, Django Framework, SQL, MySQL, LAMP, jQuery, Node.js Apache web server, Scala, Spark Flask, Cassandra

**Client: - Genfare, IL**

**Role: Python Developer Jan 2014 to Oct 2014**

**Responsibilities:**

* Utilized **Django Framework** for creating web applications utilizing model view control engineering.
* Used Multi-Threading factory model to distribute learning process back-testing and the into various worker processes.
* Overseen, created, and composed a dashboard control board for clients and Administrators utilizing **Django, Oracle** DB and **VMW**are API calls.
* Implemented configuration changes for data models.
* Maintained and updated existing automated solutions.
* Handled potential points of failure through error handling and communication of failure.
* Cleaned data and processed third party spending data into maneuverable deliverables within specific formats with Excel macros and python libraries.
* Performed effective conveyance of code in light of standards of Test Driven Development (TDD) and constant mix to keep in accordance with Agile Software Methodology standards.
* Utilized **Pandas API** to put the information as time arrangement and forbidden configuration for east timestamp information control and recovery.
* Different testing methodologies like unit testing, Integration testing, web application testing Selenium testing performed.
* Lock mechanisms were implemented, and the functionality of multithreading has been used.
* **Python/Django** based web application, **PostgreSQL DB**, and reconciliations with outsider email, informing, stockpiling administrations.
* Built up a completely computerized ceaseless reconciliation framework utilizing Git, Gerrit, **Jenkins,** **MySQL** and custom devices created in **Python** and **Bash.**
* Used Docker for packaging up applications along with their necessary operating system dependencies for easier deployment across environment.
* Design and implemented custom scripts. Extensive use of version controller Team Foundation Server (**TFS**).
* Wrote **Python** scripts to parse config files.
* Participated in Scrum-related team activities, i.e., daily standup, sprint planning, etc.
* Involved in code reviews and bug tracking on **JIRA**.
* Experience with **JIRA, Stash, Confluence**.
* Followed Google Python Coding Style and **PEP-8** while working with various teams.

**Environment:** Linux, Python 2.7, 2.5, Django 1.7, 1.5, HTML5, XML, JavaScript, jQuery, MS SQL Server, Amazon s3, Jenkins, Docker, Mongo DB, Beautiful soup, Eclipse, Git, GitHub, JIRA.

**Client: - Fiserv, TX**

**Role: Python Developer Sep 2012 to Dec 2013**

**Responsibilities:**

* Design, develop, test, deploy and maintain the website.
* Worked closely with designer. Converted Photoshop images into **XHTML/CSS**, complex Flash integration.
* Designed and developed the UI of the website using **HTML, AJAX, CSS** and **JavaScript**.
* Developed entire frontend and backend modules using **PHP/Python**.
* Frameworks of help **PHP/MySQL** (basically Joomla), Classic **ASP/MSSQL**, Communicating and interfacing with past designers constantly
* Used **AWstat** and **Google Analytics** to analyze web traffic.
* Implement machine learning algorithms for document recommendation in enterprise taking advantage of several data sources available in enterprise.
* Analyzed the Data streams/source to ingest the required data into the Data platform to server biz needs.
* Used **Django** configuration to manage URLs and application parameters.
* Wrote and executed various database queries from Python using **Python-MySQL** connector and **MySQL DB** package.
* Associated with improvement of Web Services utilizing **SOAP** for sending and getting information from the outer interface in the **XML** organize.
* Designed and developed data management system using **MySQL**.
* Successfully migrated the Django database from **SQLite** to **MySQL** to **PostgreSQL** with complete data integrity.
* Invented a novel automated machine learning algorithm for compressing.
* Rewrite existing **Python/C++** module to deliver certain format of data.
* Responsible for debugging the project monitored on **JIRA** (Agile).
* Designing and creating low level libraries and helper libraries for the automation tool.
* Performed investigating, settled and conveyed numerous Python bug fixes of the two principle applications that were a primary wellspring of information for the two clients and interior client benefit group.
* Used Selenium Library to write fully functioning unit test process that allowed the simulation of submitting different requests from multiple browser to web application.

**Environment:** MySQL, HTML, Python, Django, C++, HTML5, CSS, XML, JavaScript, AWS, Linux, Shell Scripting, AJAX.

**Client: - Cognizant, India**

**Role: Java Developer Aug 2010 to July 2012**

**Responsibilities:**

* Extensively involved in requirements gathering and analyzing them, checking the conditions and design of the project.
* Implemented **C++** library for fetching addresses near a given zip code.
* Implemented **C++** library for address correction and name/word pattern matching, used singleton and factory method patterns.
* Installed and configured **MySQL** on **LINUX** and Windows environment.
* Used Web services – **WSDL** and **SOAP** for getting credit card information from third party.
* Used Apache Tomcat Server to deploy the applications.
* Used proprietary tracking tools to manage the issues/project work flow.
* Developed custom web forms using **jQuery** and **JavaScript**.
* Migrated legacy application in **Fortran** and **C** to **Python**.
* Worked on prototypes for Responsive design.
* Wrote test plans and performed unit testing and performance testing.
* Improved code reuse and performance by making effective use of various design patterns.

**Environment:** Java,C++, Python, HTML, CSS, JSON, JSP, jQuery, MVC, SQL, PL/SQL, MySQL