**Ram Dattatreya**

**Senior Python Developer**

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**Professional Summary:**

* Around **10** years of experience in Design and Development of web applications using Python, Django, Flask and ReactJs.
* Extensive experience in system analysis, design, development and implementation of web based and client/server application using HTML, CSS, JavaScript, AJAX, PHP.
* Experience in Test driven development for functional and integration testing using Python Nose test, PyUnit, Robot framework and Selenium frameworks.
* Front End coding using **Angular 2.0** using modules like angular material, angular aria, angular paging, angular google maps, etc.
* Experience and understanding **of React Redux life cycle with components and rendering to DOM.**
* Involved in creating and maintaining scripts to auto deploy using Jenkins and Docker.
* Good experience in Shell Scripting, UNIX commands.
* Experience in developing applications using AWS EC2, Cloud Search, Elastic Load balancer ELB, S3, CloudFront.
* Experience in writing SQL Queries, Stored procedures, functions, tables, views, triggers.
* Experience in developing **JSON based REST Web services** in Django and Flask web applications.
* Experience in developing applications in Linux Environments such as Red Hat, CentOS, Ubuntu.
* Experienced in Agile Methodologies and SCRUM process including Sprint planning, backlog grooming, Daily Standups, Code review, Pert Chart, Gant Chart.
* Implemented responsive web pages using HTML5/CSS3, Bootstrap and XML/JSON based SOAP and REST web services.
* Worked on standard python packages like boto and boto3 for AWS.
* Have used Python libraries like NumPy/ SkiPy, Pandas for market analysis and done some machine learning using Python.
* Experience in validating Regular and **Ajax control using Selenium locators** (xPath, CSS, id and name)
* Experience in using Version Control Systems like GIT, SVN.
* Integrate Service Now with Splunk to consume the alerts from Splunk and create service now tickets.
* Good Experience with PEP-8 and Google coding Guidelines in Python.
* Experience with Automation using Selenium (remote control and web driver) using TestNG and data driven frame works.
* Ability to work individually and in a team contributing to the success of product.
* Knowledge about **Splunk architecture** and various components (indexer, forwarder, search head, deployment server), Universal and Heavy forwarder.
* Experience in Amazon Redshift, Amazon EMR and Amazon SQS.
* Experience in documenting and maintaining reports and helping with software release process.
* Expertise in working with different databases like Oracle, MySQL, PostgreSQL and Good knowledge in using NoSQL databases MongoDB (2.6,2.4)
* Proficient in developing complex SQL queries, Stored Procedures, Functions, Packages along with performing **DDL** and **DML** operations on the database.
* Highly motivated, dedicated, quick learner and have proven ability to work individually and as a team.

**Technical Skills:**

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| **Languages** | Python, Shell (Bash), C, C++, PHP, Java |
| **Web Technologies** | ReactJs, AngularJs, HTML, JavaScript, ES6, jQuery, ajax, CSS, Bootstrap, XML |
| **Web Frameworks** | FLASK, DJANGO, Nodejs |
| **Web Server** | APACHE SERVER, Apache HTTP, IIS 6.0 |
| **Database** | ORACLE, MySQL, SQLite, PostGRE, MS SQL SERVER, NoSQL databases MongoDB (2.6,2.4) |
| **Editors** | Notepad++, Sublime text 3, PyCharm, PyDev, vi, vim |
| **UML Modeling** | Rational Rose, UML, StarUML |
| **Networking** | FTP, IPC, TCP/IP, UDP, ZeroMQ |
| **Operating System** | Mac OS X, Ubuntu, CentOS, Red Hat, Windows |
| **Virtualization Tools** | VMware Workstation 10/11, Oracle Virtual Box |
| **Tools** | Jira, Git, Stash, SVN, Confluence, Jenkins, Bamboo, Docker, Splunk |

**Education:**

* Bachelor’s in computer science and Engineering University Visvesvaraya College of Engineering, Bangalore, India – 2008

**PROFESSIONAL EXPERIENCE:**

**Bank of America, New York, NY Mar’17- Till Date**

**Python Developer**

**Responsibilities:**

* Developed entire frontend and backend modules using Python on Django Web Framework.
* Developed **REST** **API get, post, delete, put functionalities** for the application using Django Rest Framework.
* Implemented navigation rules for the application and page.
* Performed testing using Django's Test Module.
* Built web crawler framework for internal web applications to consume data using **urllib2** and **beautiful** **soup** **modules**.
* Built python scripts to secure sensitive data and password hashing.
* Used Bootstrap and React.js as a mechanism to manage and organize the HTML page layout.
* Wrote form validations for UI elements using JavaScript.
* Used ReactJs axios ajax calls to get, post, delete REST API calls.
* Wrote Django serializers to represent data in JSON format for the ajax calls.
* Wrote python scripts to parse **XML** and **JSON** reports to dump into database.
* Exported/Imported data between different data sources using SQL Server Management Studio. Maintained program libraries, users' manuals and technical documentation.
* Responsible for debugging and troubleshooting the web application.
* Built Django models, views and API’s for the application using **MVT** **architecture**.
* Experienced in Agile Methodologies and SCRUM Process.
* Worked in PostgreSQL database on simple queries and writing Stored Procedures for normalization and denormalization.
* Used many regular expressions in order to match the pattern with the existing one.
* Responsible for debugging and troubleshooting the web application.
* Wrote unit test scripts for views using Django built in unit test module.
* Developed automation framework using python selenium for the web application.
* Developed scripts for deployment using **Jenkins** and **Docker**.
* Working in Agile and scrum environment which includes daily standup and sprint planning.
* Extensive use of Jira, Git, **PyCharm**, CentOS.
* Collecting the several usage models and functions from the team members
* Development of XMLs for several components which maintains data for several registers
* Usage of advance features pickle/unpickle in python for sharing the information across the applications

**Environment:** Python2.7, Django 1.6, Docker, Es6, Rest Framework, ReactJS, HTML, CSS, Bootstrap, JavaScript, MySQL, Jira, Git, CentOS, Ajax, Jenkins, PyCharm

**S&P Global, New York, NY May’15-Feb’ 17**

**Python developer**

**Project:** Web application for S&P Global that users statistical and data mining technique on historic data both real tine data contextual data**.** Primary roles and responsibilities are to develop and maintain web application framework which also includes web scraping, automated test framework using Python, Django, ReactJS.

**Responsibilities:**

* Develop and maintain automated tests using Python and the Robot test framework
* Developed entire frontend and backend modules using Python on **Django** Web Framework.
* Designed and developed the UI using ReactJs, HTML, AJAX, CSS and JavaScript
* Wrote python raw SQL queries to Django database agnostic for MySQL and Oracle database.
* Created Django class-based REST API’s for the application and serialized data.
* Detect errors and Troubleshooting by using S.O.S on Splunk environment
* Wrote JavaScript form validations for all the web pages in the application.
* Implemented several Socket, **TCP**/**IP**, UDP, Twisted **ZeroMq**, XMLRPC programs to retrieve data from various data centers.
* Built python framework to transform Datasets and Data tables into HTTP-serializable JSON strings.
* Used Python in-built libraries **urllib2** and **beautiful** **soup** modules for web scraping.
* Implemented automation script using Crontab in python to run the web crawler.
* Integrate Service Now with Splunk to consume the alerts from Splunk and create service now tickets.
* Used cURL for web scraping contents that cannot be scraped normally.
* Designed front end and backend of the application using Python on Django Web Framework.
* Used HTML, CSS, AJAX, JSON designed and developed the user interface of the website.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Splunk DB Connect 2.0 in search head cluster environments of Oracle, MySQL.
* Used JavaScript and JSON to update a portion of a webpage.
* Built python frameworks using **NumPy** and **Pandas** for data analysis.
* Worked in Agile and scrum environment which includes daily standup and sprint planning.
* Created unit test and automation framework using nose test and selenium.
* Handling the day to day issues and fine tuning the applications for enhanced performance.

**Environment:** Python 2.7, nose, Robot framework, ZeroMQ, twisted ZeroMQ, XML-RPC, IPC, TCP, UPD, Linux, Git, Stash, Jira, Confluence, Ubuntu, PyCharm, PyLint, PEP-8, Django 1.6, JavaScript,

**JPMorgan Chase & Co , New York, NY Feb’14 – Aprl’2015**

**Python Developer**

**Description:** Dedicated to optimization experienced Python developer understands the melding of operations and development to quickly deliver code to customers. Have experience with the Cloud and monitoring processes as well as development in Windows Mac and Linux systems.

**Responsibilities:**

* Involved in entire lifecycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* 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.
* Created backend database T-SQL stored procedures and Jasper Reports.
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* ETL process for continuously bulk importing catalog data into Elasticsearch
* Managed large datasets using **Panda data frames and MySQL.**
* Maintained program libraries, user manuals and technical documentation.
* Deployed with Fabric on AWS on EC2 instance with Postgres RDS and S3 file storage.
* Worked with millions of database records daily, finding common errors and bad data patterns and fixing them
* Wrote HTML front end pages using Django templates.
* Experienced in Agile Methodologies and SCRUM Process.
* Involved in development of Web services using **SOAP** for sending and getting data from the external interface in the XML format.
* Implement code in Python to retrieve and manipulate data.
* Used Django configuration to manage URLs and application parameters.
* Performed troubleshooting, fixed and deployed many Python bug fixes of the two main applications that were a main source of data for both customers and internal customer service team.
* Resolved ongoing problems and accurately documented progress of a project.

**Environment**: Python, Django, HTML5/CSS, Parse Database, jQuery, GitHub, Review Board, Amazon AWS S3 CLI, Amazon BotoPil, Jira.MS SQL Server 2013, T-SQL, Jasper Reports, JavaScript, Eclipse, Linux, Shell Scripting.

**Dark Hourse Pvt Ltd, Hyderabad India Mar’12-Dec’13**

**Python Developer**

**Project:** Worked on Project called Financial Inclusion (FI).FI is the delivery of banking services at an affordable cost to vast the sections of disadvantaged and low-income groups, including households, enterprises, SMEs, traders. The process of ensuring access to financial services and timely and adequate credit where needed by vulnerable groups such as weaker sections and low-income groups at an affordable cost.FI has four different types of applications for various banks, including the customizations required for respective banks and reporting tool commonly applicable across all the banks.

**Responsibilities:**

* 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 UI using CSS, HTML, JavaScript, jQuery and JSON.
* Django dashboard with custom look and feel for end user has been created using CSS, HTML, JavaScript and jQuery
* Unit Test Python library was used for testing many programs on python.
* Ensured high quality data collection and maintaining the integrity of the data.
* Implemented URL parser for markers to be displayed on user interface for images by using json, jQuery and JavaScript.
* Build all database mapping classes using Django models and MySQL.
* Designed and developed data management system using MySQL.
* Creating unit test/regression test framework for working/new code
* Responsible for debugging and troubleshooting the web application.
* Designed and configured database and back end applications and programs.
* Performed research to explore and identify new technological platforms.

**Environment:** Python, Django, JavaScript, Selenium, MySQL, HTML, CSS, Linux, GIT, AJAX.

**Infosys, Bangalore, India May’ 09 – Jan’ 12**

**Software Developer**

**Description: Description:** Postal services are faced with the challenge every day - getting millions of mail pieces delivered on time. The necessary information for the processing is contained in the address found on every mail piece, or in the bar code. Siemens postal automation system extricates the sorting information from the addresses and bar codes in a fast and reliable manner. Their system reads postal codes, town and street names, states/provinces, countries, house and post office box numbers. It can automatically read and sort by the name of the family and given names of the recipient irrespective of whether the address is handwritten or typed.

**Responsibilities:**

* Working knowledge in multi-tiered distributed environment, **OOAD** **concepts**, good understanding of Software Development Lifecycle (SDLC).
* Build SQL queries for performing various CRUD operations like create, update, read and delete.
* Developed dynamic dashboard shows live configuration of electric water or gas meters like voltage, current and other data points using Java, **Spring**, **Hibernate**.
* Involved in designing and developing the front end of the application using JavaScript, HTML, CSS and Bootstrap
* Used JDBC API to access database.
* Implementing the business logic required for the application.
* Developed JSPs and Servlets to dynamically generate HTML and display the data to the client side. Extensively used JSP tag libraries.
* Used Git as source control management.
* Maintaining the application revisions using CVS
* Test, maintain and recommend software improvements to ensure strong functionality and optimization

**Environment:** Java, MySQL, HTML, JavaScript, Git, Web Services, CSS, Bootstrap, Eclipse