**Naveena B**

**Python Developer**

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**PROFESSIONAL SUMMARY**

* **8+ Years** of experience as a **Web Application Development/Support of Software Applications**, **Management** and **Implementation of various stand-alone**, **client-server enterprise applications**.
* Experienced of software development in **Python** using **Django**.
* Experienced in developing web-based applications using **Python**, **Django**, XML**, CSS, HTML, DHTML, JavaScript and JQuery, RUBY, AJAX, Java/J2EE.**
* Good Experience with **Django**, a high-level **Python Web framework** and implementation with server side technologies with restful API and MVC design patterns with **node.JS.**
* Extensive knowledge in Java/J2EE architecture(**JDBC, JSP, JNDI, Data Source, JMS, Servlets**)
* Good knowledge of **SQLite**, **MS SQL**, **MongoDB** and **Cassandra** databases with Python, Programming and management **Linux** and **Unix** environments.
* Hands-on experiences in **Shell scripting**, **Python STL**, **Pylons**, **Django**, **UI** and web development with clear understanding of **PEP-8.**
* Good knowledge on web services with protocols **SOAP and REST.**
* Good knowledge of **OOP** Concepts, Standard Template Library, smart Pointers, Data Structures and Design patterns.
* Skilled experience in **Python** with proven expertise in using new tools and technical developments (libraries used: libraries- **Beautiful Soup, Jasy, Numpy, Scipy, Matplotlib, Pickle, PySide, python-twitter, Pandas dataframe, Networkx, urllib2, MySQL** for database connectivity) to drive improvements throughout entire SDLC.
* Good experience in developing web applications implementing Model View Control architecture using **Django**, **Flask**, **Pyramid**, and **Zope** Python web application frameworks.
* Experience in using various version control systems like **CVS**, **Git, GitHub, and Amazon EC2** and deployment
* Working Knowledge of **Pandas**, **Numpy**, **and Scipy**.
* Experienced in **Agile** Methodologies, **Scrum** stories and **waterfall** models in a Python based environment, along with data analytics, data wrangling and Excel data extracts.
* Hands on **SVN**, **Git**, **JIRA**, **Bugzilla** and Good understanding of **Django ORM** and **SqlAlchamy**.
* Well versed in writing **unit test** cases and **selenium test cases.**
* Good experience with **UNIX scripting/Load testing**, **SQL server**, **Linux** and **Openstack**.
* Excellent program solving techniques and Analytical thinking capabilities.

**TECHNICAL SKILLS**

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| **Operating Systems** | Windows 7, UNIX and Linux CentOS, Debian, Ubuntu 16.x |
| **Programming Languages** | Python2.x, Java, C, C++, PHP, Shell Scripting |
| **Web Technologies** | HTML/HTML5, CSS/CSS3, XML, DOM, AJAX, jQuery, JSON and Bootstrap |
| **Frameworks** | Django, Flask, Pyramid, PyJamas, Jython, Angular JS, Node JS, Spring, Hibernate |
| **Webserver** | Apache HTTP webserver, WebLogic, WebSphere, JBoss and Apache Tomcat |
| **IDE** | Eclipse, Netbeans, Webstorm, Sublime Text, Brackets, Pycharm, Pystudio, Pyscripter |
| **Cloud Computing** | AWS EC2, S3, RDS(MY SQL), SQS |
| **Deployment Tools** | Heroku, Amazon EC2, S3, Jenkins and Fabric |
| **J2EE** | JDBC, JNDI, JSP and servlets |
| **Databases** | Oracle 8i/9i/10g/11g, PostgreSQL, MySQL, Sqlite3, Cassandra, Redis and mongo DB |
| **Testing Tools** | Bugzilla, Jasmine, Pyunit, JIRA and Junit, Zope, PyTest, nose, Robot |
| **Protocols** | TCP/IP, HTTP/HTTPS, SOAP |
| **Miscellaneous** | Git, SVN, CVS, GitHub |

**PROFESSIONAL EXPERIENCE**

**Client: American Express, Phoenix, Arizona Mar`17 – Present**

**Role: Python Developer**

**Description:**

**Responsibilities:**

* Successfully developed web application using **AngularJS**, **HTML**, **CSS** and **JSON** for tracking the status of network devices
* Exported data from excel to **MySQL** database using **MySQL** queries. Wrote several procedures for getting data from database
* Implemented Spring Restful web services which produces JSON output and parsed the data.
* Created Restful API in **Django** framework using python, secured the API using custom token authentication
* Designed interactive user interface by displaying pie charts, bar charts and grids by using **nvd3** library
* Worked with huge data parsing and displayed the data on the front-end
* Wrote scripts to securely connect to devices using **paramiko**, **pexpect** libraries and run commands to insert the config files into **PostgreSQL**
* Deployed application using **Apache** tomcat server on centos.
* Created test cases, test plans, tested API’s, wrote TestNG test cases, executed code coverage, wrote automation scripts using Selenium, executed database queries for testing purposes and led different projects in the shipping and checkout domain.
* The project has been carried out by an efficient **Agile** Methodology
* Tracked the user stories for each sprint in **JIRA**
* Successfully developed a deployment tool, compared the deltas of the files and displayed on the UI
* Worked with device configuration files with python cli library to interactive with remote devices.
* Created tool to upload files using **Django** and converted forms with **libreoffice** api.
* Wrote several scripts using **python** to automate the devices pre/post deployment and display the deltas using the html generator.
* Automated the devices working mechanism using python scripts.
* Worked on **Openstack** tenant, pushed code on private **Github** on a regular basis for testing
* Worked on Github to commit changes of the project and documented using confluence

**Environment**: Java, Python, Django, AngularJS, HTML, CSS, JSON, MySQL, Restful Api, Github

**Client: PG&E, San Francisco, CA Sep`15–Feb`17**

**Role: Python Developer**

**Description:**

**Responsibilities:**

* Responsible for gathering requirements, system analysis, design, development, testing, and deployment, developed Business logic using Python 2.7
* Used **Django** framework for application development.
* Responsible for setting up Python **REST** **API** framework using **DJANGO**.
* Designed the front end of the application using **Python, Java, HTML, CSS, AJAX, JSON and JQuery**. Worked on backend of the application, mainly using Active Records.
* Involved in Developing a Restful service using **Python** **Flask** framework
* Made in **Django** web-based applications for Insurance premium calculations
* Developed entire front-end and back-end modules using Python on **Django** web framework
* Created database using **MySQL**, developed Merge jobs in Python to extract and load data into **MySQL** database.
* 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**.
* Built various graphs for business decision-making using Python **matplotlib** library.
* Created **Python** and **Bash** tools to increase efficiency of call center application system and operations, data conversion scripts, **AMQP**/**RabbitMQ**, **REST**, **JSON**, and **CRUD** scripts for API Integration.
* Experienced in **Agile** Methodologies and **SCRUM** Process.
* Worked in development of applications especially in **UNIX** environment and familiar with all of its commands.
* Successfully migrated the **Django** database from **SQLite** to **MySQL** to **PostgreSQL** with complete data integrity
* Used Test driven approach for developing the application and implemented the unit tests using Python **Unit Test** framework
* Used interactive data binding, filters and animation events using **AngularJS.**
* Implemented **jQuery** to improve the overall usability of the website interface and **AJAX** functionality to speed up web application.
* Developed views and templates in **Django** to create a user-friendly website interface.
* Deployment and Build of various environments including **Linux** and **UNIX**
* Used Pandas library for statistics Analysis and **Numpy/Scipy** for Numerical analysis for insurance premium calculations.
* Skilled in using collections in Python for manipulating and looping through different user defined objects.
* Deployed the project into **Heroku** using **GIT** version control system.
* Using Subversion version control tool to coordinate team-development.
* Worked in **MySQL** database on simple queries and writing Stored Procedures for normalization and renormalization.
* Responsible for debugging and troubleshooting the web application.
* Used JavaScript and XML to update a portion of a webpage and **Node.js** for **server side** interaction.

**Environment:** Python 2.7, Django 1.4, HTML5, CSS, Bootstrap, JavaScript, , JQuery, JSP, UNIX, Shell Scripting, MVC architecture, Pandas, Cassandra, Flask with restful services and python libraries such as Numpy, GitHub, Chef, JSON, XML, PostgreSQL, MYSQL, SQL, PLSQL, SQL Server 2013, Heroku, Restful API.

**Client: Discover Financial Services, Riverwood’s, IL Mar`14 – Jun`15**

**Role: Python Developer**

**Description:** Discover Financial Services, Inc. is an American financial services company, which issues the Discover Card and operates the Discover and Pulse networks, and owns Diners Club International.

**Responsibilities:**

* Designed and developed Use-Case diagrams, Class diagrams, and object diagrams using UML techniques.
* **Model View Control architecture** is implemented using **Django Framework** to develop web applications.
* Implemented Business logic, worked on data exchange, processed **XML** and **HTML** using **Python 2.7** and its familiar framework **Django 1.4**.
* Worked on **Django API's** for accessing the database.
* Developed **Views** and **Templates** with **Python** and using **Django's view controller** and template language, Website interface is created.
* Worked with Python **OO** Design code for manufacturing quality, monitoring, logging, and debugging code optimization.
* Worked on Python **Open stack API**.
* Managed large datasets using **Pandas** data frames and **MySQL**.
* Wrote and executed various **MYSQL** database queries from Python using **Python-MySQL** connector and **MySQLdb** package.
* 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.
* Worked with **JSON** based **REST** Web services.
* Used **Django** framework for database layer development.
* Responsible for setting up Python REST API framework using **Django**.
* Created database using **MySQL**, wrote several queries to extract data from database.
* Implemented monitoring and established best practices around using elastic search.
* Implemented automate scripts to back up the old records using **MongoDB export command** and transfer these backup files into backup machine using **ftplib**.
* Maintaining multiple copies of data in different database servers using **MongoDB Replication concept.**
* Experienced in **Linux shell commands** and **command line utilities.**
* Effectively communicated with the external vendors to resolve queries.
* Used **GIT** for the version control.

**Environment**: Python 2.7, Django1.4, C++, JSON, XML, LoadRunner, Load Balancer, VUGEN, SOAPUI, HTML, Restful API, Oracle 9i, Shell Scripting, PL/SQL, MySQL, pandas, Cassandra, MongoDB, ODBC, GIT, Linux, Selenium, Jenkins, Beautiful Soup, Matplotlib.

**Client: VeriSign Inc, Reston, VA** **Jan`13 – Feb`14**

**Role: Python Developer**

**Description:** Verisign, Inc. is an American company based in Reston, Virginia, United States that operates a diverse array of network infrastructure

**Responsibilities:**

* Developed GUI using **HTML**, **AJAX**, **Javascript** and **jQuery**
* Involved in requirement analysis, functional specifications and design.
* User interface is decoupled using **Spring MVC architecture with Struts** implemented already as the front-end.
* Re-engineered various modules for implementing changes and creating efficient system supported application
* Support the scripts configuration, testing, execution, deployment and run monitoring and metering.
* Developed Server side validation checks using **Struts Validators and Java Script** validations.
* Deployed and tested on **WebSphere Application Server**.
* Worked with **XML, XSL to develop UI** for the application.
* Developed views and templates with **Python and Django's view controller** and templating language to createa user-friendly website interface.
* Used Python and **Django** creating graphics, **XML** processing of documents, data exchange and business logic implementation between servers.
* Implemented database access using **Django**, **Oracle**
* Created data base tables, functions, stored procedures and wrote prepared statements using PL/SQL.
* Used Restful APIs to access data from different suppliers.
* Modified the SQL queries and techniques for improving the performance of queries.
* Used Restful API's to gather network traffic data from Servers.
* Supported **Apache** **Tomcat** web server on **Linux** Platform.
* Developed and executed User Acceptance Testing portion of test plan.
* Designed, developed and bundled various small financial utilities using **JAVA, Hibernate, XML parser SAX** which was distributed to different development teams.
* Self-motivated team player with good Analytical, Logical and Problem Solving ability.

**Environment:** Java/J2EE, Spring IOC, Hibernate 3.0, Struts 2.0**,** JSP, Python 2.4, Django 1.3, C++, HTML Restful API, Oracle 11g, Shell Scripting, PL/SQL, Oracle, ODBC, Linux and JQuery, AJAX, JavaScript, backbone.js, Java Script, CRUD, PL/SQL, JDBC, Web Sphere

**Client: Kofax, Hyderabad, India Aug`11 – Dec`12**

**Role: Application Developer**

**Description:** Kofax captures information and automates information-intensive processes, increasing operational efficiency while reducing costs. By enabling organizations to digitally transform their business processes, Kofax improves customer engagement and enhances competitive advantage.

**Responsibilities:**

* Developed entire frontend and backend modules using Python on **Django** Web Framework, **MySQL**, **Linux**, **HTML**, **XHTML**, **CSS**, **AJAX**, **JavaScript** **and Apache** Web Server.
* Design, develop, test, deploy and maintain the website
* Coding and execution of scripts in **Python**/**Unix**/**VB**
* Development for Application using **Java** and **Python**
* Recording of Scripts (Web, Web Services HTML) using **Vugen** and **SoapUI** and script validation through co correlations, parameterizations and other methods. Scripting- web and web services
* Script validation sometimes becomes challenging as it demanded many web based logic rat rather than correlation and parameterization.
* Running load/endurance tests using **Vugen**, **ALM** and controller, server monitoring, analysis using **Dynatrace**, **UNIX** **putty**, **SQL** logs and other tools and reporting the performance. Analyzing errors and exceptions using putty logs.
* Scripting and validation of scripts through correlation, parameterization and web based logic testing (**Smoke** **test**, **Load** **test**, **Endurance**) using Controller for a duration further analysis, checking response times, CPU utilizations, memory leaks of servers and other performance characteristics of the website and creating PAPAL reports and creating test reports. Many other tasks in additional.
* Designed and developed data management system using MySQL
* Rewrite existing **Python**/**Django**/**Java** module to deliver certain format of data.
* Used **Django** Database API's to access database objects.
* Wrote python scripts to parse **XML** documents and load the data in database.
* Generated property list for every application dynamically using python.
* Responsible for search engine optimization to improve the visibility of the website.
* Handled all the client side validation using JavaScript.
* Creating unit test/regression test framework for working/new code
* Using Subversion version control tool to coordinate team-development.
* Responsible for debugging and troubleshooting the web application.

**Environment:** Python, C+, HP LOAD, Putty, SQL, SoapUI, ControlM, PerfMon, MySQL, Linux, HTML, XHTML, CSS, AJAX, JavaScript, Apache Web Server.

**Client: Softlab, Bangalore, India Jan`10 – Jul`11**

**Role: Java Developer**

**Description:** SOFTlab is a design studio based in New York City. The studio was created by Michael Szivos shortly after receiving a graduate degree in architecture from the Graduate School of Architecture, Planning and Preservation at Columbia University**.**

**Responsibilities:**

* Analyze various service requests, change requests and discrepancies from the clients.
* Implemented Struts Model-View-Controller Design Patterns.
* Implemented various Validation Controls for form validation and implemented custom validation controls using Object Oriented **JavaScript**.
* Created **DAO** classes to call the database.
* Developed and deployed UI layer logics using **JSP**, **JavaScript**, and **HTML**.
* Used Maven to build and deploy the source code using project object model
* (POM) for execution.
* Performed Requirement analysis, designing, coding, implementation, team co-ordination, code review, testing.
* Development has been carried out in **Spring** Framework and **Eclipse** **IDE**
* Used **PL/SQL** to extract data tables from **Oracle** database
* Experience in source control repositories like **SVN**, CVS.
* Used to do manual testing and upload the generated **XML** files to Mainframe.
* Designed and implemented the Persistence layer using **MySQL**.
* Designed and implemented the UI using **JSP**, **Jquery**, **JavaScript** and **CSS** style sheet.
* Implemented the **MVC** controllers to control and divert the inflow of the request to appropriate underlying DAO implementation classes.
* Extensively used the **Spring**-**MVC** framework and integrated it with Hibernate in a single configuration file.
* Designed and implemented the **RESTful** WebServices.
* Designed and implemented the UI using **JSP**, **Jquery**, **Javascript** and **CSS** style sheet

**Environment:** Java 1.4, JSP, HTML 5, JavaScript, Spring-MVC, Apache Tomcat, Hibernate 3.0, Struts 2.0, Oracle 10g, Eclipse.