#### Swathi K

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* Over 7 years of professional Software Development Work Experience with efficient application development and designing knowledge of **Python** and **Django** ability in development of web based applications using **Python**.
* Experience in working with **Python**, **Java**, **C++,HTML**, **DHTML**, **XML**, **CSS**, **JavaScript**, **JQuery**, **Bootstrap**, **JSON**,**Perl, Rabbit MQ, Celery, Jenkins, Maven, JIRA, Git**, **Angular.JS andNode.JS.**
* Developed the required **XML** Schema documents and implemented the framework for parsing **XML** documents.
* Development Experience in **Linux** (**CentOS**, **Debian**, **Ubuntu**), **MacOS**.
* Skillful experience in **Python** by developing software’s using new tools, libraries used: libraries- **BeautifulSoup**, **numpy**, **Scipy**, **PySide**, **python**-**twitter**, **matplotlib**, **Pickle**, **Pandas**, **wxPython**, **numPY**, `1++**Twisted** and **MatPlotLib** to improvise software development process.
* Good understanding and extensive knowledge of **Django**, **ApacheTomcat**, **Web logic Servers**.
* Experience in analyzing and handling large datasets using **OracleRelationaldatabase9g**, **10g**, **11g**.
* Good knowledge in maintaining various version controls systems such as **SVN** and **GIT**.
* Experienced in working with Development Environments like **Eclipse** and **PyDev**.
* Solid background in Object-Oriented analysis and design used various Design Patterns and have also having good knowledge in **AgileMethodologies**(**Scrum**).
* Experienced in writing **SQL** Queries, Stored procedures, functions, packages, tables, views, triggers and also have better knowledge about development tools like **Bugzilla**, **Jira**, **Confluence**, and **Axosoft**.
* Familiar with **JSON** based **REST** Web services.
* Well experienced in requirement gathering, Use case development, Business Process flow, Business Process Modeling: extensively used **UML** to develop various use cases, class diagrams and sequence diagrams.
* Hands-on experience in writing and reviewing requirements, architecture documents, test plans, design documents, quality analysis and audits.
* Performed **codereviews** and implemented best Python programming practices
* Experience creating real-time data streaming solutions using **Apache Spark core, spark SQL & Data Frames, ai, spark streaming** and **Apache Storm.**
* Experienced in Unit testing, Integration testing, User acceptance testing, Functional testing.
* Active Participation in **Fulldevelopmentlifecycle** (requirements, design, architecture, development, testing).
* Extensive knowledge of **J2EE** Architecture (JSP, JDBC, Data Source, JNDI, JMS, Servlets,).
* Experience in working with different operating systems **Windows 98/NT/2000/XP/Vista/7/8, UNIX**.
* Experience with **Unit testing/ Test driven Development (TDD), Load Testing**.
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on MySQL and PostgreSQL database.
* Deve6loped a data migration feature using **GZ** File Compression and **AES256** encryption.
* Worked on **AJAX** framework to transform Datasets and Data tables into **HTTP**-serializable **JSON** strings.
* Exposure working with virtual machines and containers with **Vagrant**, **VirtualBox** and **Docker**.
* Worked on **waterfall** methodologies with high quality deliverables delivered on-time.
* Conducted **Python** Training programs for people with **Java**/.**Netexperience**.
* Followed Behavior-Driven Development (BDD Approach) environment using agile methodologies and used JBehave.
* Excellent Interpersonal and communication skills, efficient time management and organization skills, ability to handle multiple tasks and work well in a team environment.
* Excellent analytical and problem solving skills and ability to work on own besides being a valuable and contributing team player.

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| Technical Skills |

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| Programming Languages | **Python, Java, C/C++, SQL and PL/SQL.** |
| Databases | **Oracle (9i,10g, 11g), My SQL, Django, Apache Cassandra, MongoDB.** |
| IDE’s/ Development Tools | **Eclipse, PyCharm, PyScripter, PyStudio, and Sublime Text.** |
| Operating Systems | **Windows, Linux Ubuntu, MAC OSX.** |
| Protocols | **TCP/IP, HTTP/HTTPS.** |
| Testing Tools | **Selenium, JIRA, Hiptest.** |
| Deployment Tools | **Heroku, Amazon EC2.** |
| Frameworks | **Django, Pyjamas, CSS Boot, Flask, Behave** |
| Methodologies & tools | **Object Oriented Programming, UML, Agile Scrum.** |

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| Project Experience |

**Present Project Status:**

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| **Client: Optum, Eden Prairie, MN** | **Time:Mar’2017 – Current** |
| **Role: Python Developer** |
| **Technology**: Python,OS X, Selenium, Open Stack, JIRA, Hiptest, HTML, Django, CSS, Java Script, Bootstrap, Behave, PageObjects, Steps, Browserstack, GIT, Rabbit MQ, MongoDB, Spark, REST APIs, Jenkins, Web Services, Eclipse. | |

**Accomplished:**

* **Django** Framework used in developing web applications to implement the MVC architecture.
* Used **Django** APIs for database access.
* Parsed various file formats including XML and JSON and loaded into Oracle database with **Python, XML** and **JSON** modules.
* Used **Git** and **Jira** for code submissions and review process.
* Participated in providing change requests, trouble reports and requirements collection with the client.
* Implemented and modified various SQL queries and Functions, Cursors and Triggers as per the client requirements.
* Developed remote integration with third party platforms by using RESTful web services.
* Working under UNIX environment in development of application using **Python** and familiar with all of its commands.
* Used **Regular Expressions** in order to match the pattern with the existing one and store them in database on a chronological basis.
* Performed in various phases of the Software Development Life Cycle **(SDLC)**
* Developed and Consumed **SOAP** based Web Services using SOAP based Web Services.
* Spring was used for dependency injection.
* Responsible for updating database tables and designing **SQL** queries using **PL/SQL.**
* Developed front end using Struts tag libraries, **JSTL, JSP, HTML**, and Java **Script.**
* Used **SQL** and **MongoDB** to rectify the troubleshot errors.
* Developed numerous new features and enhancements for our web application using **Python/Django, HTML/CSS/JS** as well as automating our development environment using ansible.
* Wrote scripts to automate **python** packaging and used **PyGit** to interact with the **Gitlab.**
* Used **Python** text parsing modules to cleanse and load data files from partners into the application/database. Data came in various formats including **XML** and **JSON.**
* Worked on statistical analysis by processing of collected data and Data Visualization using **Python Pandas**, **Matplotlib, Scipy** and **Numpy** packages.
* **Python/Django** based web application, PostgreSQL and integrations with 3rd party email(slack), messaging, storage services and used Django configuration to manage URLs and application parameters.
* Used **AJAX and JQuery** for transmitting JSON data objects between frontend and controllers.
* Carried out various mathematical operations for calculation purpose using **Python libraries**.
* Experience with **Core java** with understanding and working knowledge.
* Involved in performing the Linear Regression using **Scala** **API** and **Spark**.
* Maintaining the scripts using the **SVN** version Control.
* Maintaining customer database using MS EXCEL.Services using **Axis, XML** technologies.
* Developed enterprise web services using **J2EE, SOA Suite, Spring, Hibernate, iBATIS, and JMS.**
* Developed weekly, monthly nightly job process through **UNIX shellscripting**.

**Previous Project Status:**

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| **Client: State of New Mexico(CYFD), Albuquerque, NE** | **Time: Feb’2016 – Jan’2017** |
| **Role: Python Full Stack Developer** |
| **Technology:** Python 2.6, numPY, Scipy, Django, Pandas**,** TCP/IP, UDP, SVN, PHP, JQuery, MySQL, Visual Basic, Linux, Eclipse, XML, JASPER, T-SQL, GitHub,Ansible, Oracle, Workflow, Shell Scripting, HTML5/CSS, Apache Cassandra, HTML, AJAX, JavaScript, SQL Server, matPlotLib, Redis, Orient DB. | |

**Accomplished:**

* Analyzed and understood the business requirements.
* Developed object-oriented programming to enhance company product management and also Used several Python libraries like **wxPython**, **numPY** and **matPlotLib**.
* Worked on requirement gathering and High level design.
* Frequent use of network protocols in Python-- **TCP/IP, UDP** etc.
* Used **PHP** as an HTML embedded scripting language, in front end web development.
* Created **PHP/MySQL** back-end for data entry from Flash. I had to assist the Flash developer send the correct data via query strings.
* Architected workflow solutions including pre-commit scripts, pre-receive hooks, and custom **GitHubAPI** scripts.
* Used **WSDL** and the Oracle **SOA** Suite toolset to design and generate WS-I compliant web services that exposed the aforementioned interfaces.
* Knowledge of clinical **workflow** and a basic understanding of clinical terminology.
* Designed, Installed and Implemented **Ansible** configuration management system.
* Managed and trained peers on the installation of **Oracle 10gAS** and the **Oracle SOA** suite across various environments throughout the development cycle.
* Involved in the process of data acquisition, data pre-processing and data exploration of telecommunication project in **scala**.
* Developed enterprise data integrations using **AIA, SOA Suite, Web Services, and OSB**.
* Performed routine tasks, such as updating statuses and attending team meetings, testing with automation development, learned the aspects of **Kafka**, TIBCO, and automate reports using SQL Database.
* Modeled device provisioning parameters using **YANG** and added Tail-F based provisioning support.
* Conceived and designed custom POCs using Kafka 0.10 and the Twitter Stream in standalone mode.
* coordinated **Kafka** operations and monitoring (via JMX) with dev ops personnel; formulated balancing leadership strategies.
* Developed tools for **ArcGIS** desktop & web to automate mapping tasks using Python scripting & ESRI Model Builder
* Create maps for various utilizing **Esri ArcGIS** Suite. Utilizes geoprocessing, model builder, and spatial analysis tools.
* Hands on experience onLed design of the next generation systems architecture based on software-as-a-service applications.
* responsible for 100% availability in our clustered **SaaS**environment.
* Automate complex GIS processes with **ESRI Model Builder**.
* Created backend database **T-SQL stored procedures** and **Jasper Reports.**
* Build all database mapping classes using **Django** models.
* Created unit test/regression test framework for working/new code.
* Experience with NoSQL databases like **Apache Cassandra, MongoDB and Orient DB**.
* Developed GUI using **JavaScript, HTML/HTML5, AJAX, CSS and JQuer**y in ongoing projects.
* Converted Visual Basic Application to **Python** and **MySQL**.
* Experience in analyzing and handling large datasets using **Oracle Relational database 9g, 10g, 11g.**
* Defined capabilities and limitations of the **latex** process and continually looked for opportunities for improvement
* Responsible for direct supervision and development of latex line personnel, incorporate visionary sustainability practices/initiatives
* Utilized Python in the handling of all hits on **Django**, **Redis**, and other applications.
* Migrating Oracle database to **Postgres** using AWS DMS.
* Designed and developed the presentation layer/client end and handled all the client side validation using **JavaScript**.
* Responsible for debugging and troubleshooting the web application.
* Used **JIRA** (Agile) for debugging the project
* Used **SQL** and **MongoDB** (NoSQL) to identify and troubleshot campaign errors.
* Performed code review to achieve quality code.
* Experienced with deploying the application image on Docker.
* Performed research to explore and identify new technological platforms.

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| **Client: ​​Liberty Mutual Insurance, Boston, MA** | **Time:Aug’ 2014 – Dec’ 2015** |
| **Role: Python Developer** |
| **Technology:** Java, J2EE, Servlets, JSP, SOA, Struts, EJB, JMS, JDBC, AWS, BEA Web Logic Server, Oracle, Eclipse, XML, Log4j, UML, Ant, JUnit, HTML, JavaScript, Unix, JSP, Struts, Hibernate, Axis, Oracle, WebLogic etc. | |

**Accomplished:**

* Understood requirements from the client.
* Analyze, design, develop, test, deploy and maintain the website.
* Involved in entire SDLC process.
* Participating in requirement gathering and analysis phase of the project in documenting the business requirements by conducting workshops/meetings with various business users. Used Agile Methodology and **SCRUM** Process
* Designed the User Interface using **HTML, XHTML, CSS, JavaScript,** and **AJAX** for the website.
* Prepared **SOA** readiness assessment on the current client infrastructure
* Frontend and Backend modules were created using **Python** on **Django framework**.
* Developed **Python** code for instantiating multi-threaded application and running with other applications.
* Designed and developed Database management using **MYSQL**.
* Developed Python modules to extract data from MYSQL database.
* Excellent configuration management using Ansible, **Aws CloudFormation**, and **Terraform.**
* Worked in agile and waterfall methodologies with high quality deliverables delivered on-time.
* Developed the required XML Schema documents and implemented the framework for parsing XML documents.
* **Im**plementing and setting up AWS security groups for **AWS** Instances on **AWS** Environment.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed to reach one or more **AWS** EC2 instances.
* Used **AWS** CloudFront (content delivery network) to deliver content from AWS edge locations drastically improving user experience and latency.
* Used Python Library **Beautiful Soup** for webscrapping.ss.
* Contributed to the development of the Reference Architecture as a guideline for future **SOA** projects
* Deployed the project into **Heroku** using **GIT** version control system.
* Skilled in using collections in Python for manipulating and looping through different user defined objects.
* Responsible for debugging and troubleshooting issues.
* Implemented Web Services using **SOAP** for sending and receiving data from external interface in XML format.
* Analysed impacts for small changes
* Performed code review to achieve quality code.
* Involved in test-cases using Junit, debugging Implementation and deployment activities.
* Manage, collaborate and coordinate the work of an offshore development team.
* Performed optimization of test server by implementing multiprocessing for the caching system, improved user experience.

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| **Client: Kindred Healthcare, Inc. Louisville, KY(OFF SHORE)** | **Time:Jan’ 2013 – Jun’2014** |
| **Role: Python Developer** |
| **Technology:** Python 2.7/3, Django, SQL, PHP, LAMP (MySQL, Linux), Angular.js, C, Linux, Apache, ESXi Hypervisor, OpenStack, Shell Scripting, Panda, Oracle, HTML, MS SQL server 2005. | |

**Accomplished:**

* Responsible for development of system-level cluster management and monitoring tools.
* Linux system software development on **Linux,** using **Python**, **C** and lots of other **Linuxtools**.
* Python as a system-software development language, not just for small scripts.
* Large Python code bases using multiple modules and packages.
* Frequent use of network protocols in Python-- **TCP**/**IP**, **UDP** -- at the application level. Sockets, **REST**, etc.
* Development of Linux clustering environment for Amazon EC2 cloud, including creation of custom CentOS-based **AMIs** and Python environment for cluster management.
* Management of high-performance, I/O-intensive **Linux** clusters.
* Development of cluster management software in **Python**.
* Designed and developed MySQL Stored Procedures and Shell Scripts for Data Import/Export and Conversions
* Development of Ganglia clusters monitoring plugins in **C** and **Python**.
* Extensive use of **Virtualmachine** technologies, particularly VMware Workstation and **ESXiHypervisor**. Creation, cloning and configuration of virtual machines; clustered VMs using VMware Teams; command-line interaction with virtual machine engines, particularly with the **ESXi** hypervisor.
* Managed large datasets using Panda data frames and **MySQL**.
* Management of virtual and native Linux installations on multi-core Sun server and desktop hardware.
* Responsible for search engine optimization to improve the visibility of the website.
* Used **D3**.**js** library for visualizations like transitions, line charts and bar graphs.
* Developed Merge jobs in Python to extract and load data into MySQL database.
* Installed, configured, and maintained a continuous integration (build) server.
* Designed and developed the presentation layer/client end and handled all the client side validation using JavaScript.
* Developed Views and Templates with Python and using Django's view controller and template language, Website interface is created.
* Development of monitoring and instrumentation tools for our core Java systems, using **JVMTI**, **JDI** and related technologies, including development of native agents in C.
* Connection of C libraries to Java using the JNI. Generated property list for every application dynamically using python.
* Used **SQL** and **Mongo DB** (NoSQL) to identify and troubleshot campaign errors.
* Actively worked as a part of team with managers and other staff to meet the goals of the project in the stipulated time.
* Developed a Coverity mail script that extracts code defects data per component for a daily report to drive reducing defects in the codebase.
* Developed a web tool that monitors and drives the automated continuous integration system allowing release managers to track changes

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| **Client: Magma Fincorp Limited, Hyderabad, Telangana** | **Time:Sep’ 2011– Dec’ 2012** |
| **Role: Jr. Python Developer** |
| **Technology:** Java, Python 2.6, Django, CVS, JavaScript, HTML/CSS, MYSQL, PL/SQL, JDBC, UNIX Shell Scripting, Red Hat Linux, WebLogic Application Server. | |

**Accomplished:**

* Technical experience with **LAMP** (**Linux, Apache, MySQL, PYTHON**) architecture.
* Responsible for gathering requirements, system analysis, design, development, testing and deployment**.**
* Involved in preparing engineering specification with **OOA** and **OOD**.
* Used Rational Rose Enterprise to develop Use Case diagrams, Class diagrams, Collaboration and Sequence Diagrams, State Diagrams, Data Modeling.
* Developed application logic using **Python and JavaScript**.
* Used JMS for updating Mailing plans and tracking them.
* Implemented front end for third party Web service using **JQuery, Html, AJAX, JSON and JavaScript**.
* Used Java Server Pages for content layout and presentation with python.
* Developed the frontend for interaction by using the Django framework.
* Worked with version controlling system **CVS** and **SVN**.
* Created Data layer in **MYSQL**.
* Extracted and loaded data using Python scripts and **PL/SQL** packages
* Supported Java application for Media portal management.
* Debugging and testing of the applications & fine tuning performance. Provided maintenance support in production environment.
* Implemented DAO database access objects.
* Used **SOAP UI** to test the external service.

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| **Client: CMC, Hyderabad, Telangana** | **Time:Jan’ 2011– Aug’ 2011** |
| **Role: Jr. Python Developer** |
| **Technology:**Python, Django, XML, Java, Apache, CSS, MySQL, ORACLE, DHTML, HTML, JavaScript, Shell Scripts, Linux, UNIX. | |

**Accomplished:**

* Worked with team of developers on **Python** applications for **RISK** management.
* Made **Django** web based apps for Insurance premium calculations.
* Designed the architecture of the hardware environments and methodology of the code.
* Involved in **Agile** Methodologies and **SCRUM** Process.
* Job scheduling, batch-job scheduling, process control, forking and cloning of jobs and checking the status of the jobs using shell scripting.
* With using of **Python OS** module on **UNIX** environment, made job cloning and forking.
* Automated data extraction process from legacy system and used 'Nose' Testing framework with Assertion module to testing many automated process.
* Participated in entire lifecycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* Used **Numpy** for Numerical analysis for Insurance premium.
* Developed weekly, monthly nightly job process through **UNIX shell** scripting.
* Thoroughly used Unit Test Python library for testing many python programs and block of codes.
* Also have rich experience on testing **REST FullAPI** like Facebook and Twitter.
* Migration of the data contained in the earlier ASPL Database from Sybase to Oracle.
* Migrate the Libraries written using Sybase API's to Oracle's OCCI API's.
* Automation of testing using Python.