**Krishna Kommalapati**

**PROFESSIONAL SUMMARY**

* ***Over 7****+* ***Years*** *of experience in Analysis, Design, Development, Management and Implementation of various stand-alone, client-server enterprise applications.*
* ***Extensive experience on python scripting by using standard libraries in python and as well as anaconda python libraries.***
* *Working Experience on Python (libraries used: libraries-* ***numpy, Pandas ,Cython ,Numba,HDF5****and IDEs –* ***sublime text, pycharm, emacs.***
* *Working Experience on* ***co-routines*** *,****multiprocessing*** *and* ***event-driven*** *programming in python using* ***gevent, joblib, circuits****.*
* *Hands on experience in Object-Oriented design and coding. Good knowledge of various Design Patterns and UML.*
* *Contributed greatly to increases in code quality and productivity in areas such as Test/Behavior Driven Development, Refactoring, Pair Programming (Extreme Programming/XP), and Agile Estimation and Planning*
* *Good Knowledge of* ***Django*** *,****Flask*** *Frameworks.*
* *Extensive experience on* ***celery , celeryd\_multi, celery workers, celery chains****.*
* *Working Knowledge of Java and java related frameworks.*
* *Good knowledge of web services with protocols* ***SOAP, REST.***
* *Good knowledge of server* ***Apache Tomcat, Nginx.***
* *Experience on build management using* ***Jenkins****.*
* *Knowledge of* ***ORM*** *mapping using* ***SQLACHEMY , DJANGO****.*
* *Experienced with databases using ORMs/DOMs for integrating with* ***Mysql, Oracle,Redis, MongoDB,Cassandra****. Also, experienced with writing custom queries through database connectors.*
* *Leveraging queueing architectures with* ***AMQP/RabbitMQ and Celery****for scalability, performance and building distributed systems.*
* *Experienced in web applications development using* ***Django/Python, Flask/Python****, and* ***Node.js, Angular.js, Jquery*** *while using* ***HTML/CSS/JS*** *for server-side rendered applications.*
* *Experience in Debian derivatives Ubuntu as well as Redhat derivatives such as Centos. I am capable and experienced in supporting the underlying applications infrastructure requirements.*
* *Experience on working Docker ,Swarm Manager, Rancher to containerize the application.*
* *Experience with Ansible and writing playbook’s for automating the deployment process.*
* *Having experienced in Agile Methodologies, Scrum stories and sprints experience in a Python based environment, along with data analytics, data wrangling and Excel data extracts.*
* *Experienced in writing SQL Queries, Stored procedures, functions, packages, tables, views, triggers.*
* *Working experience with  AWS provided Solutions like EC2, ELB , Route 53, RDS, S3, and CloudWatch. .*
* *Hands on experience in SVN, Git, JIRA, Bugzilla.*

**PROFESSIONAL EXPERIENCE**

**Havi Global Solutions, DownersGrove, IL**

**Nov 2015 -Present**

**Python Developer**

**Responsibilities:**

* Developed Distributed application with **celery** and **rabbitmq**.
* Implemented Logging Mechanism with **Log Stash**.
* Built **Docker** images and containers to containerize the application.
* Implemented **Swarm** Manager with etcd(key-value pair distributed database) to manage the containers in production .
* Implemented **Nose** test case’s for unit testing.
* Worked on **pandas** on how to calculate data-outliers(data-points) with a data-scientist.
* Worked on **ansible** , created **ansible**-playbooks to automate the deployment process
* Worked on **Cython** to improve the performance of the application.
* Managed large datasets using **Pandas** data frames .
* Implemented a Data Interface Layer with **Redis** to store temporary data that can be used across long running jobs.
* Implemented DML operations on database with **Django** ORM.
* Implemented Co-routines using **Gevent**.
* Implemented **Single Dispatch** using Python.
* Ensured high quality data collection and maintaining the integrity of the data.
* Cleaned data and processed third party spending data into maneuverable deliverables within specific formats with Excel macros and python libraries.
* Used several python libraries like **wxPython, numPY** and **matPlotLib**.
* Build all database mapping classes using Django models and **Cassandra**.
* Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Designed and developed data management system using MySQL.
* Creating unit test/regression test framework for working/new code
* This project also used other technologies like JQuery for java script manipulations, bootstrap for the front-end html layout.
* Responsible for debugging and troubleshooting the web application.
* Developed, tested and debugged software tools utilized by clients and internal customers.
* Coded test programs and evaluated existing engineering processes.
* Designed and configured database and back end applications and programs.
* I have been part of high throughput messaging processing system development using **Kafka.**
* Implemented build management with **Jenkins** where Jenkins is running as a master container and other containers as slave containers.

**Environment: Python 3.5Pandas,Numpy,Celery,RabbitMQ,Cython,Docker,Rancher,ETCD,Django,Flask, Jenkins.**

**Oracle.**

**Comcast , Maunt laurel ,NJ**

**Jan 2014 – Nov 2015**

**Role: Python Developer**

* Implemented Asset Management System with **Django**, **AngularJS**.
* Integrated several web services with various vendors of Comcast.
* Implemented email tool that reads csv file and sends out emails based on business rules.
* Implemented **HandsOnTable** API for business users to edit the excel files on web.
* Implemented Django ORM for DML Operations.
* Created a fully functional back-end platform using **Python/Django**.
* Used **Redis** to create a cache layer when importing data from external sources.
* Packaged the application into RPM to deploy the application.
* Implemented **celery-chords** to run tasks in parallel while consuming messages from **RabbitMQ**.
* Implemented Mongo as a document store to insert parts of various vendor’s like cisco , arris ,ciena etc when tasks are scheduled from **RabbitMQ**.
* Created and Implemented **SOA** services utilizing SOA programs.
* Implemented **Djangoforms** for data coming outside application and keeping dataclean.
* Implemented writing to multiple routers and reading multiple configurations.
* Implemented **SNMP** protocol via **pysnmp** client.
* implementing **OSPF network discovery** via **SNMP.**
* Used Python for connecting via Telnet to any network device, SSH to network device.
* Hands on experience on **capturing ,decoding and analyzing network packets**.
* Hands on experience on querying **SNMP** Objects on any network device.
* Hands on experience on network discovery of network devices in python.

**Environment:Python2.7,Django1.7,RabbitMQ,Celery,AngularJS,ElasticSearch,Mongo,**

**Openstack.**

**New York Times, New york**

**June 2013 – jan 2014**

**Python developer**

**Responsibilities:**

* Designed the front end of the application using **Python, HTML, CSS, AJAX, JSON and JQuery**. Worked on backend of the application, mainly using Active Records.
* Analyzed system requirements specifications and also in client interaction during requirements specifications.
* Analysis and Design of application.
* Created UI using **JavaScript and HTML5/CSS.**
* Developed and tested many features for dashboard using **Python, Bootstrap, CSS, and JavaScript.**
* Writing backend programming in **Python**.
* Used **JavaScript and XML** to update a portion of a webpage.
* Implemented web applications in **Flask, Zope** frame works following **MVC** architecture.
* Performed Unit testing, Integration Testing, GUI and web application testing using **Rspec.**
* Develop consumer based features and applications using **Python, Django, HTML**, behavior Driven Development (**BDD**) and pair based programming.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript and JQuery.
* Experience with advanced **CSS** concepts and also building table-free layouts.
* Worked on front end frame works like **CSS Bootstrap** for development of Web applications.
* Experienced in writing **SQL Queries** and implementing stored procedures, functions, packages, tables, views, Cursors, triggers.
* Collaborate with Product Management and User Experience experts regarding product definition, schedule, scope and project-related decisions.
* Manage, collaborate and coordinate the work of an offshore development team.
* Special skills in developing user friendly, simple yet effective web based applications.
* Deployed the project into **Heroku** using **GIT** version control system.
* Worked in **MySQL database** on simple queries and writing Stored Procedures for normalization and renormalization.
* Used many regular expression in order to match the pattern with the existing one.
* Build **SQL** queries for performing various CRUD operations like create, update, read and delete.
* Designed the architecture of the hardware environments and methodology of the code.
* Experienced in Agile Methodologies and SCRUM Process.
* Worked in development of applications especially in **UNIX** environment and familiar with all of its commands.

**Environment: Python 2.7, Django 1.4, HTML5, CSS, XML, MySQL, MySQL, JavaScript, Angular JS, Backbone JS, JQuery, CSS Bootstrap, MS SQL Server, T-SQL, JavaScript, Eclipse, Git, GitHub Linux, Shell Scripting.**

**TCS ,India**

**Jan 2012 – June2013**

**Role: Python Developer**

* Analyzed system requirements specifications and also in client interaction during requirements specifications.
* Participated in the complete **SDLC** process.
* Developed user interface using **CSS, HTML, JavaScript and JQuery**.
* Wrote Python modules to extract/load asset data from the **MySQL** source database.
* Designed and implemented a dedicated **MYSQL** database server to drive the web apps and report on daily progress.
* Developed views and templates with **Python** and **Django’s** view controller and templating language to create a user-friendly website interface.
* Used **Django framework** for application development.
* Created entire application using **Python, Django, MySQL** and **Linux**.
* Enhanced existing automated solutions, such as the Inquiry Tool for automated Asset Department reporting and added new features and fixed bugs.
* Created database using **MySQL**, wrote several queries to extract/store data.
* Worked in **MySQL database** on simple queries and writing Stored Procedures for normalization and renormalization.
* Played a key role in a development wide transition from **Subversion** to **Git**, which resulted in an increase in efficiency for the development community.
* Developed a fully automated continuous integration system using **Git, Gerrit, Jenkins, MySQL** and custom tools developed in **Python** and **Bash**.
* Managed, developed, and designed a dashboard control panel for customers and Administrators using **Django, OracleDB, PostgreSQL, and VMWare API calls.**
* Experience in writing **Sub Queries, Stored Procedures, Triggers, Cursors,** and **Functions** on **MySQL** and **PostgreSQL** database.
* Developed, tested and debugged software tools utilized by clients and internal customers.
* Coded test programs and evaluated existing engineering processes.
* Work with team of developers on **Python** applications for RISK management.
* Worked on rebranding the existing web pages to clients according to the type of deployment.
* Special skills in developing user friendly, simple yet effective web based applications.
* Deployed the project into **Heroku** using **GIT** version control system.
* Used advanced packages like **Mock, patch** and **beautifulsoup (b4)** to perform unit testing.
* Used many regular expression in order to match the pattern with the existing one.
* Skilled in using collections in **Python**for manipulating and looping through different user defined objects.
* Involved in Unit testing and Integration testing.

**Environment:Python 2.7, Django 1.4, Puppet Rspec, Jenkins, Grafana/Graphite, MySQL, Linux, HTML, CSS, JQuery, JavaScript, Apache, Linux, Git.**

### **TCS, India**

### **Aug 2011 - jan 2012**

**Java Developer**

**Project Responsibilities:**

* Designed presentation part in **JSP**(Dynamic content) and **HTML**(for static pages).
* Handled Validating and Processing of Inbound and outbound messages.
* Worked for EDI module and involved in development and deployment of application.
* Handled Validating and Processing of EDIFACT messages and In-house messages (IAL and IGM).
* Performed Client side validation using **JavaScript.**
* Was part of implementing **Multithreading.**
* Used JDBC for the persistent storage of details in the **Oracle** database.
* Wrote **SQL** stored procedures and triggers for data population, retrieval.
* Worked on Spring **Web Services** combination to consume a service.
* Adopted J2EE best Practices, using J2EE patterns. Utilized View Helpers, Session Façade, Value Objects, Business Delegate, Service Locator and Singleton for portability and performance.
* Involved in debugging the application for any existing issues.
* Involved in the design discussions with Business Analysts and developed/delivered the code as per the design.
* Developed and used ANT build scripts to compile, package and deploy the application.
* Deployed the Application as part of every monthly release on **WebSphere** Application Server 7.0.
* Developed test cases and performed unit testing using **JUnit**, **DBUnit**, **Mockito** and involved in debugging.

**Environment: Java, JSP, Servlets, JAXB ,JAXP,JAX-WS, JavaScript, HTML, UML, Tomcat, Oracle10g, Windows XP.**

**TCS,India**

**Sept 2009 – Aug 2011**

**Java Developer**

**Responsibilities:**

* Designed and developed components for billing application and EDI Module.
* Developed web pages using **HTML** and **JSP.**
* Developed data validation & Data access components using **Servlets** and **JavaBeans**.
* Checking the database by writing the **SQL** Queries to check whether data is correctly storing in the data base or not. Checking the database catalog to get the information about the data type of the fields.
* Designed and developed several logical layers and modules including UI Delegate Layer, Data Access Layer using hibernate & spring and a Services Layer.
* Worked on stored procedures, PL/SQL and SQL queries
* Implemented **Agile** Java methodology using **Eclipse**, **Java**, **spring** and **Hibernate** for the CRC development.
* Design and develop an enterprise common logging around **Log4j** with a centralized log support (used logger info, error and debug).
* Involved in publishing as well as consuming web services using **Apache AXIS**, **JAXB** and **JWSDP**.
* Used **JWSDP** for generating Java stubs, and skeletons from the existing XSD for interacting with the **CME** from the **CRC**.
* XML Parsers like **SAX**, **DOM** and Document Builder Factory were extensively used to write Java client programs to parse the XML feeds.
* Unit, Integration testing and code review at client place.
* Defect fixing and defect prevention analysis
* Implemented Session Facade, Command Pattern and DAO design patterns.
* Involved in writing **ANT** build files, for the build (Creation of **JAR**, **WAR**, and **EAR**) and deployment of the application on to the target test as well as production servers.
* Used XML **Web Services** using **SOAP** to transfer the amount to transfer application that is remote and global to different financial institutions.

**Environment: .JDK1.5, Java, Servlets, JSP, HTML,JAXB, JUnit, Web Logic6.1, SQL Server, JAX- WS, CVS.**

**EDUCATION**

* Bachelor of Engineering in Computer Science & Engineering, JNTU 2009, Hyderabad.