Kiran Samatham

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# Professional Summary

* **Around 8 years** of experience in IT Industry involving in analytical programming software development and design, testing of web based and client server **multi - tier applications** using Python, Django & Backend Technologies.
* Expertise in **Object Oriented concepts** like Creating Classes, Inheritance, Constructors, Polymorphism, Encapsulation, Overloading and Overriding.
* Experience as a Python Developer in design, development, testing, maintenance and documentation of Enterprise applications using various technologies, analyzing complex business requirements & mapping them to system specifications.
* Experience with web applications and **Restful web services** and **APIs** using Python, Django
* Experience in Implementation of **MVC/MVT** architecture using Servlet, Django, JavaScript, jQuery, Nodejs, and RESTful.
* Developing software in Python, C# and **web development frameworks** such as Django as well as MongoDB, Express, Node.js.
* Expertise in working with Python and Shell scripting for designing automation frameworks.
* Experienced in developing apps using Django Framework.
* Designed and managed **API system deployment** using fast HTTP server and Amazon **AWS** architecture.
* Extensive experience in software development in inter-process communication, threading and developing high performance code.
* Skills at developing **REST services**, sending xml and JSON data over wire.
* Having hands-on experience in **Object Oriented Development**, code optimizations, code refactoring, and web development.
* Well versed in all stages of **Software Development Life Cycle** including requirement analysis, design, development, testing, deployment and support and maintenance with various methodologies such as Waterfall, Incremental, Iterative and Agile models.
* Experience in developing REST web services supporting JSON to integrate with other external applications and 3rd party systems.
* Developed views and templates with Python and **Django view controllers** and templating language to create a user-friendly website interface.
* Organized data exchange and integration with customers and third-party systems using CSV, XLS, XML, DBF, JSON, REST.
* Experienced in using editors Eclipse, LaTeX, Notepad++, NetBeans, Visual Studio and Sublime Text while developing different applications along with version control systems like GIT.
* Experienced in developing applications using **Agile Methodologies**, Waterfall Methodology and **Scrum stories** in a python-based environment.
* Hands on experience in designing the **Class diagrams**, activity diagrams, sequence diagrams, activity diagrams and flowcharts.
* Worked closely with user researchers to define features and interaction, leading to high-fidelity mockups of use case scenarios for the design and production team.
* Penchant to learn things, good communication skills, Hardworking and adaptable, quick learning, Self-motivated, precise and dedicated.

# Skills

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| **Languages** | Python, Java, JavaScript, Angular, React, Bootstrap, Linux Shell Scripts. |
| **Frameworks** | Django, Flask, Django Rest, Spring, Hibernate. |
| **Databases** | Oracle, MySQL, PostgreSQL, MongoDB, Redis, Firebase. |
| **Tools & IDE** | Microsoft Visual Code, IntelliJ IDE, Pycharm, Eclipse, NetBeans IDE, JIRA, Jenkin, Splunk |
| **Operating System** | Linux, Mac, Windows |

# Education

## MASTERS IN Computer Science, UNIVERSITY OF NORTH CAROLINA at CHARLOTTE

# Experience

## Full stack Developer, HartFORD INSURANCE GROUP, CHARLOTTE, NC

## JUNE 2019 – PRESENT

**RESPONSIBILITIES:**

* Designed and developed the **server module** and resolved issues and responsible for its enhancements.
* Architected and developed Python and **Django** for the backend development and front-end application using**React,**Webpack**, Redux, and ES6/7** and **PostgreSQL** for database.
* Worked on **Django ORM** module for signing complex queries.
* Defined different **Django API** profiling techniques for faster rendering information.
* Used **Ansible**, **Vagrant** and **Docker** for managing the application environments.
* Worked on Django **Signals**, **Celery** and **RabbitMQ** queues.
* Developed **Python scripts** for testing the car functioning on different services.
* Worked with **Splunk** for testing the performance and **debugging server** level problems.
* Implemented various **Validation Controls** for form validation and implemented custom validation controls using **Object Oriented JavaScript.**
* Used **React JS** in components like JSX, creating React components, Virtual DOM, React**Props**, Lifecycle methods, working with React **States** and Events.
* Developed Restful **microservices** using Flask and Django and deployed on **AWS**servers using EBS and EC2.
* Developed views and templates with **Django view controller** and template to create a user-friendly website interface.
* Used **CircleCI** for continuous integration and delivery platform over **GIT**.
* Worked on multiple **containers** and managed the **load balancing** between all the containers using **NGINX**.
* Used **Django Migrations** for designing and expanding of the database.
* Implemented the **Spring MVC** architecture.
* Worked on Restful API development using **Jersey** **API**.
* Created **User Interface** screens using HTML, AJAX, CSS, Java script
* Developed Action classes, ActionForms, and **Struts Configuration** file to handle required UI actions, JSPs for Views.
* Automated most of the daily task using **python scripting**.
* Worked on **Jira** for managing the tasks and improving the individual performance.
* Making recommendations to the team in terms of appropriate testing techniques, shared testing tasks.

**Environments**: Python, Django, DjangoRest, Flask, React, Redux, CircleCI, Vagrant, Splunk, New Relic Server, GitHub, Ansible, Java, J2EE, Spring MVC Framework, JSP, JSTL, XML, Log4J, Ant, Oracle, Tomcat, REST, Servlets, Hibernate, POJO, Restful Services, UNIX HTML5/CSS, PostgreSQL, Amazon Web Service (AWS), S3, EC2, EBS, Pycharm, Microsoft Visual Code, Linux, Shell Scripting, JIRA.

## Full stack Developer, obxtek,McLean, VA

## AUG 2017 – MAY 2019

**RESPONSIBILITIES:**

* Designed and developed the complete admin module and **resolved issues** and **enhanced** the admin module for more achievements.
* Used **Python** programming and **Django** for the backend development, **Bootstrap** and **Angular** for frontend connectivity and **MongoDB** for database.
* Developed a **Django ORM** module queries that can pre-load data to reduce the number of databases queries needed to retrieve the same amount of data.
* Worked on **UNIX/LINUX** , **Docker** and **Ansible**.
* Used JavaScripts for **data validations** and designed validations modules.
* Developed project's web page as **Single Page Application** (SPA) by using **AngularJS** and JavaScript API and build delivery driver application.
* Developed views and templates with **Django view controller** and template to create a user-friendly website interface.
* Used **PandasAPI** to put the data as time series and tabular format for local timestamp data manipulation and retrieval and storing it into **MongoDB**.
* Deployed and tested different modules in **Docker containers** and **GIT**.
* Used **multiple containers** and managed the load balancing between all the containers using **NGINX**.
* Implemented programming automations using **Jenkins** and **Ansible** on unix/linux based OS over cloud like Docker.
* Automated MySQL container deployment in Docker using Python and monitoring of these containers.
* Used Python Library **BeautifulSoup** for web scraping to extract data for building graphs
* Uploaded the admin module on **Elastic Beanstalk** (EBS) and **EC2** and stored the static files in **S3** on Amazon cloud.
* Automated most of the task using python scripting, **RaspberryPI** and **Raspbian** OS, and Unix/Linux shell Scripting.
* Developed **leadership** skills and managing the team spirit.

**Environments**: Python 2.7, Django, DjangoRest, Flask, AngularJS, Javascript Validation, Jenkins, Dockers, Container, GitHub, Ansible, RaspberryPI, Raspbian, HTML5/CSS, MS SQL Server 2013, Amazon Web Service (AWS), S3, EC2, EBS, MySQL, JavaScript, Pycharm, UNIS/Linux, Shell Scripting, JIRA.

## SOFTWARE Developer, Fidelity Investments, CHARLOTTE, NC

## AUG 2016 – JULY 2017

**RESPONSIBILITIES:**

* Involved in various phases of Software Development Life Cycle (SDLC) such as requirements gathering, modeling, analysis, design and development.
* Involved in the process of creating Use-case diagrams, Activity flow diagrams, Class diagrams and Object diagrams in the design phase and developed the Coding module.
* Created Python and Bash tools to increase efficiency of call center application system and operations, data conversion scripts, **REST**, JSON, and CRUD scripts for **API Integration**.
* Automation of **unit testing** using Python.
* Used **Unix/Linux** OS based cloud for the deployment.
* Wrote **scripts** in Python for extracting data from HTML file using Python library **Beautiful Soup**.
* Experience with Data migration from Sqlite3 to **MongoDB**.
* Build the Silent Circle Management System (SCMC) in **Django**, **Python**, and **AngularJS** while integrating with infrastructure services.
* Created a **Python/Django** based web application using Python scripting for data processing, **MySQL** for the database, and HTML/CSS/JQuery and High Charts for data visualization of the served pages.
* Strong **Socket programming** experience in Python. Implemented complex networking operations like race route, **SMTP** mail server and web server.
* Used standard Python modules e.g., csv, robot parser, iter tools, **pickle**, **jinja variables**, lxml for development.
* Managed, developed, and designed a dashboard control panel for customers and Administrators using Django, HTML, CSS, JavaScript, Bootstrap, JQuery and **REST API calls.**
* 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.
* Experienced in **Agile** Methodologies and SCRUM Process.

**Environments:** Python, Django, REST API, Agile, Heroku, Bootstrap, pickle, jinja, SMTP, Django ORM, Pandas api, MongoDB, Beautiful Soup.

## SOFTWARE ENGINEER, CADVISION ENGINEERS, Hyderabad, india

## MAY 2013 – JULY 2014

**RESPONSIBILITIES:**

* Developed Python Scripts to read from Excel files, generate XML configuration files and for generating IP access frequency lists in different datalogs.
* Generated Python Django Forms, Crispyforms to record data, login and signup of online users.
* Used multithreading in programming to improve overall performance.
* Involved in creating various Data Access Objects (DAO) for addition, modification and deletion of records using various specification files.
* Write a wrapper program in Python to automate the entire process.
* Database Administration activities like taking backup, checking log messages, looking for database optimization.
* Expertise in developing web-based LAMD stacks applications using Python and Django for large dataset analysis.
* Worked on creating various documents that include Use Cases, Class Diagrams, Sequence Diagrams and Activity Diagrams.
* Involved in the development using Spring Model View Controller (MVC) with Data access/integration layer consists ORM module.
* Designing classes using design pattern methodologies such as Singleton, Service Locator, and DAO factory and session façade patterns. Involved in Performance tuning.
* Created tables, complex join queries, stored procedures, views, Types, triggers and functions and modifications to existing database structure as required for addition of new features using SQL.
* Implemented TCP/IP socket programming application module which communicates data from cloud to devices and vice versa.
* Developed an algorithm for creation of dictionarys for brute force attacks.

**Environments:** Python, Django, Unified Modelling Language (UML), XML, Web services, CSS, HTML, Dephi, R programming, Matlab, C# and MySQL.