Vivek Thoutam

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# PROFESSIONAL SUMMARY

* 5+ years of IT Experience in designing, developing, testing and implementing of various stand-alone and client-server architecture based enterprise application software in Python on different domains.
* Skilled experience in Python with proven expertise in using new tools and technical developments (libraries- **Beautiful Soup, numpy, Scipy, matplotlib, Pickle, PySide, Seaborn, matplotlib, python-twitter, Pandas, networks, urllib2, My SQL dB** for database connectivity) to drive .com
* Ensure data integrity and data security on AWS technology by implementing AWS best practices.
* Defined RPA automation strategy for process involving Mainframes, web service calls and web applications implemented.
* Participated in Setting up the Automation Anywhere development environment (software installation, installation of related technologies such as Splunk /logging etc.).
* Took business requirements, current and future state process designs and translated them into process  flows with the help of automation anywhere.
* Exposure to Blue Prism, Single Sign-on implementation using Microsoft Active Directory.
* Experience in Automation tools Blue Prism and Automation Anywhere.
* Good experience in developing web applications implementing Model View Control architecture using Django, Flask, Tornado, Pyramid Python web application frameworks.
* Experienced in working with various Python Integrated Development Environments like **Net Beans, PyCharm, PyScripter, Spyder, PyStudio, PyDev and Sublime Text.**
* Strong expertise in development of web based applications using Python, Django, HTML, XML, Angular JS, NodeJS, CSS, DHTML, JavaScript, JSON and JQuery.
* Experience in project deployment using Heroku/Jenkins and using web services like **Amazon Web Services (AWS) EC2, AWS S3, Lambda, RDS (MySQL).**
* Good knowledge on front end frame works like CSS Bootstrap.
* 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.
* Sound experience in Core Java and Object Oriented Programming using concepts like Multi-Threading, Exception Handling and Collections.
* Experienced with Amazon SQS, and Amazon Web Services like EC2, Redshift, Lambda and S3.
* Experience in using Jenkins as a Continuous Integration server.
* Good knowledge of web services with protocols **SOAP, REST**.
* Experienced in working with server side technologies including **databases, Restful API and MVC design patterns.**
* Special skills in development of effective, user-friendly web applications. Experienced in requirement gathering, Use case development, Business Process flow, Business Process Modelling: extensively used UML to develop various use cases, class diagrams and sequence diagrams.
* Superior Troubleshooting and Technical support abilities with **Migrations, Network connectivity and Security and Database applications.**
* Knowledge about setting up **Python REST API Frame work using Django.**
* Having good knowledge in using NoSQL databases like Apache Cassandra (1.2, 2.0 and 2.1) and Mongo DB (2.6, 2.4), Orient DB.
* Extensive experience with **Amazon Web Services (AWS), Docker Puppet, Chef, Ansible, AWS CloudFormation, AWS CloudFront.**
* Experience in using various version control systems like **CVS, Git, GitHub and Amazon EC2 and deployment using Heroku.**
* Build, upgrade and maintain servers on **Solaris and Linux platforms.**
* Write, maintain and improve automation scripts in **Perl, BASH, PHP & Python.**
* Troubleshoot client/server application issues.
* **MySQL, Postgres and Oracle maintenance.**
* That introduction will then be illustrated with a few examples demonstrating the capabilities and functioning of Jython.
* Proficient in writing **SQL Queries, Stored procedures, functions, packages, tables, views, triggers using relational databases like Oracle, DB2 and MySQL.**
* Experience in working with **Python ORM Libraries including Django ORM.**
* Experience in Test Driven Development and Behavior Driven Development methodologies for consulting firms and enterprise projects.

# SKILLS

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| **Frameworks:** | **Django, Django Rest framework, Flask, Tonado, Pandas**, DotNet 4.0, CSS Bootstrap |
| **Python Libraries:** | Requests, Urllib, Pandas, NumPy, sciPy, matplotlib, BeautifulSoup, HtmlParser, Swagger, SQLAlchemy, MySQLDB, XMLDocx, PyPandoc, Celery, Celery Beat, Boto |
| **Web Technologies:** | HTML, CSS, DOM, JavaScript, JQuery, AJAX, XML, AngularJS, NodeJS |
| **Programming Languages:** | **Python**, C, C#,SQL and PL/SQL, PHP |
| **Version Control:** | SVN, **Git, GitHub**, Gitlab. |
| **Databases:** | RDBMS: Postgres SQL, Oracle (9i,10g, 11g), MySQL  NoSQL: Cassandra, MongoDB, DynamoDB |
| **IDE:** | Eclipse, PyCharm, Spyder and Sublime Text. |
| **Operating Systems:** | Linux 4.x/5.x/6.x, Ubuntu. |
| **Protocols:** | TCP/IP, HTTP/HTTPS, SOAP, SMTP, REST |
| **Deployment Tools:** | **AWS, Amazon EC2, S3, Amazon Lambda, Docker, Jenkins**, Heroku |
| **Testing Tools:** | Gitlab, Bugzilla and JIRA. |

# EXPERIENCE

## Amazon, Seattle, WA *—* Lead Python Developer

June 2017 – PRESENT

* Developed web applications and RESTful web services and APIs using Python, Django, Tornado and PHP.
* Created and integrated APIs on NodeJS.
* Created element locking mechanism using SSE and NodeJS.
* To fetch data of definite options that are selected, Python routines were written to log into websites.
* Responsible for setting up Python REST API framework using DJANGO.
* Developed ETL jobs in Python to extract, transform and load data into MySQL database.
* Developing Python Framework using Django to perform scan software unit monitoring.
* Design and development of user interfaces and client displays using JavaScript, CSS and troubleshoot various issues in Python code and fix them with code enhancements- code used various python libraries such as Jython.
* Used python modules like Numpy, Matplotlib and Pandas library for statistical analysis and generating complex graphical data.
* Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Wrote MapReduce code to make unstructured data into semi- structured data and loaded into Hive tables.
* Hosted various company-wide training sessions on Pandas, Numpy, Microservices.
* Worked on **Machine learning Supervised algorithms i.e. Regression, SVD, Cosine similarity.**
* Worked on **Recommendation system using Machine learning** algorithms.
* Built various graphs for business decision making using Python matplotlib.
* Research on Data mining techniques using python and comparing data mining algorithms.
* Developed new C++ encapsulation wrapper classes for OCCI classes.
* Responsible for setting up Python REST API framework using Django.
* Developed views and templates with Python and Django view controller and templating language to create a user-friendly website interface.
* Used JavaScript, AJAX and JSON to update a portion of a webpage.
* Responsible for debugging the project monitored on JIRA (Agile).
* Wrote Python scripts to parse JSON documents and load the data in database.
* Created database using MySQL and Postgres, wrote several queries to extract data from database.
* Setup automated cron jobs to upload data into database, generate graphs, bar charts, upload these charts to wiki and backup the database.
* Successfully migrated the Django database from SQLite to MySQL to PostgreSQL with complete data integrity.
* Designed front end using UI, HTML, Bootstrap, Node JS, underscore JS, Angular JS, CSS, and JavaScript.
* Followed AGILE development methodology to develop the application.
* Used Test driven approach (TDD) for developing services required for the application.

**Environment:** Python 3, Django 1.8, Pandas, Numpy, HTML5, CSS, XML, MySQL, JavaScript, Backbone JS, JQuery, CSS Bootstrap, MongoDB, T-SQL, JavaScript, Eclipse, Git, GitHub, JIRA, AWS, Linux, AWS Lambda, EC2, S3

## FirstGroup, Cincinnati, OH *—*Python Developer

Jan 2017 – June 2017

* Developed web applications in Django model view control (MVC/MTV) architecture.
* Developed a fully automated continuous integration system using Git, Gerrit, Jenkins, MySQL and custom tools developed in Python.
* Designed and implemented custom scripts.
* Managed, developed and designed a dashboard control panel for customers and Administrators using Django, Oracle DB, PostgreSQL and VMWare API calls.
* Used python modules such as requests, urllib, requests, HTML Parser, BeautifulSoup for web crawling.
* Developed GUI using webapp2 for dynamically displaying the test block documentation and other features of python code using a web browser.
* Used SSE (Server Side Event) for collaboration of multiple users and database synchronization.
* Configured AWS IAM and Security Group in Public and Private Subnets in VPC.
* Created AWS Route53 to route traffic between different regions.
* Designed an 8-bit adder individually from schematic to layout using Cadence 6 to match final product EDP lower than 100ps\*pJ and optimized layout area.
* Open Source template based Qt reporting solution.
* Next Medium Embed Platform is a Monetization Advertisement Placement Platform.
* Migrated the legacy application in Python from PHP maintaining the business logic intact along with feature scaling and developers new features.
* Developed the required XML Schema documents and implemented the framework for parsing XML documents.
* Migrated the legacy **PHP based application to Python Flask Restful application**.
* Performed object-oriented Python, Flask, SQL, Beautiful Soup, httplib2, Jinja2, HTML/CSS, Bootstrap, jQuery, Linux, Sublime Text, git.
* Part of team implementing REST API in Python using micro-framework like Flask with SQLAlchemy in the backend for management of data center resources.
* Conducted scrum meetings and generated custom dashboards.
* Designed and developed MVC applications for OpenStack.
* Implemented web components utilizing JSP and server side components.
* Performed user validations on client side as well as server side.
* Interacted with QA to develop test plans from high-level design documentation.

**Environment:** Python 2.7, Django, HTML5/CSS, MS SQL Server 2013, MySQL, JavaScript, Eclipse, Linux, Shell Scripting, JQuery, GitHub, Angular.JS, Jira, AWS, Google Cloud, EC2

## ATOS, Pune, India— Python Developer

May 2014 – Feb 2016

* Django Framework that was used in developing web applications to implement the model view controller architecture.
* Performed efficient delivery of code based on principles of Test Driven Development (TDD) and continuous integration to keep in line with Agile Software Methodology principles.
* Implemented a login module for user, registration of the products, placing the order and tracking the order.
* Improving the performance while processing data by modifying functions, queries, cursors, triggers and stored procedures for MySQL database.
* Hands on experience on Azure VPN-Point to Site, Virtual networks, Azure Custom security, Endpoint security and firewall.
* Created RESTful APIs using NodeJS and consumed them in BackboneJS.
* Design and Implemented Cloud Orchestration solution using Google Cloud, AWS EC2 & Microsoft Azure, Docker and Kubernetes.
* Integrated Automation scripts (Selenium WebDriver API) in Continuous Integration tools (Jenkins) for nightly batch run of the Script.
* Prepared the OOP based framework for backend on NodeJS.
* Selenium testing using flask, Django and Javascript.
* Lock mechanisms were implemented and the functionality of multithreading has been used.
* Python/Django based web application, Postgresql DB, MySQL and integrations with 3rd party email, messaging, storage services.
* Worked on writing and as well as read data from csv and excel file formats.
* Worked on a resulting reports of the application and Tableau reports.
* Held meetings with client and worked all alone for the entire project with limited help from the client.
* Participated in the complete SDLC process and used PHP to develop website functionality.
* Extensively worked on preparation of data mapping documents from Mainframe source data of Copy books, VSAM files to ETL staging tables.
* Participated in requirement gathering and worked closely with the architect in designing and modeling.
* Worked on development of SQL and stored procedures on MYSQL.
* Developed GUI using webapp2 for dynamically displaying the test block documentation and other features of Python code using a web browser.
* Responsible for user validations on client side as well as server side.
* Automated the existing scripts for performance calculations using Numpy and sqlalchemy.
* Interacted with QA to develop test plans from high-level design documentation.

**Environment:** Python 3, Django, HTML5, CSS, XML, MySQL, AWS, EC2, DynamoDB, Cassandra, Backbone JS, NodeJS, JQuery, CSS Bootstrap, MongoDB, T-SQL, JavaScript, Eclipse, Git, GitHub, AWS, Azure, Linux, Shell Scripting.

## Flipkart, Bangalore, India *—* Python Developer

Mar 2012 – Apr 2014

* Used the Django Framework to develop the application.
* Created specific images using Python Imaging Library for the custom images used for each movie.
* Involved in creating and scheduling of python based ETL scripts and batch files using celery and celery beat.
* Created thin clients for the aggregators in **PHP and DotNet.**
* Involved in creating data models and database designing and optimizing the database for better performance.
* Worked with and developed RESTful web services, SOAP web services, .net web API 4.
* Updated and manipulated content and files by using python scripts.
* Implemented web applications in Flask and Tornado and spring frameworks following MVC architecture.
* Used Django configuration to manage URLs and application parameters.
* Used Python scripts to update content in the database and manipulate files.
* Used Python and Django creating graphics, XML processing, data exchange and business logic implementation.
* Integrated elastic search for image and data searching.
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Managed datasets using MySQL, queried MYSQL database queries from python using Python-MySQL connector and MySQL dB package to retrieve information.

**Environment:** Python 3, Django, HTML5, CSS, XML, MySQL, JavaScript, Backbone JS, JQuery, CSS Bootstrap, MongoDB, T-SQL, JavaScript, Eclipse, Git, GitHub, AWS, Linux, Shell Scripting.

# EDUCATION

- Master’s in Computer Information System from Bellevue University

- Visveswaraiah Technological University, Bangalore, India *—* B.E. (Computer Science **–**  Honors)