**Lakshmi Bhavani**

Python Developer

Current Location: San Jose, CA

# PROFESSIONAL SUMMARY:

* **5 years** of experience as a Python Developer and object-oriented programming (OOP) coding with **Python, Flask, SQL.**
* Experience in all phases of Software Development Life Cycle (SDLC)-Waterfall, Agile Process across various workflows (Requirement study, Analysis, Design, Coding, Testing, Deployment and Maintenance) in Web & Client/Server application development.
* Hands-on experience in **SOAP** and **RESTful** web services.
* Hands-on experience in relational database connections like DB-API connection management and query based access to databases like **PostgreSQL** and **MySQL** in **Python.**
* Experienced in frameworks like **Django**, **Angular.js,** **Java Script**, **JQuery** and **Node.js.**
* Having working Knowledge of **Amazon AWS S3.**
* Expert knowledge of Object-Oriented programming (OOP) concepts using **Python,Spark, C++ and PHP.**
* Extensive experience in developing web applications using Python, Django, Flask frameworks.
* Experience in working with several python libraries including **NumPy, matplotlib, SciPy.**
* Good experience of software development in Python (libraries used: libraries- NumPy, SciPy, Matplotlib, Pandas data frame, for database connectivity)
* Hands-on experience with industry-standard IDEs like **PyCharm, Sublime and NetBeans.**
* Expert at version control systems like Git.
* Proficient in writing SQL Queries, Stored procedures, functions, packages, tables, views, triggers using relational databases like **Oracle, MSSQL Server.**
* Experience in using XML, SOAP, REST web Service for inter operable software applications.
* Experience in Agile development processes ensuring rapid and high quality software delivery.
* Highly motivated, quality minded developer, with proven ability to deliver applications against tight deadlines.
* Excellent interpersonal and communication skills, efficient time management and organization skills, ability to handle multiple tasks and work well in a team environment.

# Technical Skills:

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| **Operating Systems** | MS Windows, Linux/Unix |
| **Languages** | Python |
| **IDE’s** | PyCharm |
| **Databases** | SQL Server |
| **Frameworks** | Django, Flask |
| **Version Controls** | SVN, GitHub, Git |
| **Methodologies** | Agile/Scrum |

**Certifications:**

* Certification on “Programming for Everybody” (Getting started with Python) by University of Michigan on Course era.
* Certification on” Python Data Structures” by University of Michigan on Course era.
* Certification on” Using Python to Access Web Data” by University of Michigan on Course era.
* Certification on” Using Databases with Python” by University of Michigan on Course era.
* Certification on” Capstone: Retrieving, Processing, and Visualizing Data with Python” by University of Michigan on Course era
* Certification on “Python for Everybody Specialization” by University of Michigan on Course era.

# PROFESSIONAL Experience:

**Client: Independent Health, Buffalo, NY Mar 2016 - Present**

**Role: Python Developer**

**Description:** Headquartered in Buffalo, New York, A not-for-profit health plan that continually aims to provide our community with innovative health-related products and services, which enable affordable access to quality health care. The project aims to provide the company with data to develop evidence-based health policy decisions as well.

**Responsibilities:**

* Created python code to process parsed lidar csv points into relevant clearance points
* Created **C++** program to parse lidar binary bin files. Solved bugs, debugging etc.
* Worked on **React** front-end to display Lidar points.
* Wrote algorithms for clearance exceptions data.
* Wrote **Django** unit tests for web application, tested if API request met response.
* Wrote Unit test for RESTAPI using Mocklibrary, unit testing and fixture testing at system level.
* Developed and designed **Python** based API **(RESTful** Web Service) to interact with company’s website.
* Developed Business Logic using **Python** on **Django** Web Framework.
* Wrote **Python** code and actively participated in the procedure to automate processes.
* Implemented **Python** code to fix bugs and provides upgrades to existing functionality.
* Provided fault isolation and root cause analysis for technical problems.
* Highly efficient in handling multi-tasking issues in a fast paced environment.
* Created Business Logic using **Python** to create Planning and Tracking functions.
* Used Pandas data mining library for statistics Analysis & NumPy for Numerical analysis.
* Developed multi-threaded standalone app in **Python** view Circuit parameters and performance.
* Involved in building database Model, APIs and Views utilizing **Python,** in order to build an interactive web based solution.
* Designed and managed API system deployment using fast http server and **Amazon AWS** architecture.
* Used **Django** configuration to manage URLs and application parameters.
* Developed user interfaces using **HTML5** and **JavaScript.**
* Created a **Git** repository and added the project to **GitHub.**
* Utilized **Agile** process and **JIRA** issue management to track sprint cycles.
* Wrote validation scripts in SQL to validate data loading.
* Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.

**Environment:** Python, C++, Django, REST/AJAX, PostgreSQL, Spark,HTML/CSS/JavaScript, JQuery, AWS (S3, EC2, SQS), JIRA, GIT, Libraries: SciPy, NumPy, Pandas, Matplotlib, Scikit-learn,

**Meridian Software Technology, India Dec 2010 – Feb 2012**

**Role: Software Engineer (Python)**

**Responsibilities:**

* Involved in building database Model, APIs and Views utilizing Python, in order to build an interactive web based solutions.
* Designed and developed the UI of the website using HTML, XHTML, AJAX, CSS and JavaScript.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Designed and developed data management system using MySQL.
* Rewrite existing Java application in Python module to deliver certain format of data.
* Developed Python batch processors to consume and produce various feeds.
* Created test harness to enable comprehensive testing utilizing Python.
* Wrote Python scripts to parse XML documents and load the data in database.
* Handled all the client side validation using JavaScript.
* Performed testing using Django’s Test Module.
* Used python scripts to update content in the database and manipulate files.
* Generated Python Django Forms to record data of online users
* Developed the required XML Schema documents and implemented the framework for parsing XML documents.
* Used JQuery for selecting particular DOM elements when parsing HTML.
* Worked with JSON based REST Web services.
* Using GIT version control tool to coordinate team-development.
* Responsible for debugging and troubleshooting the web application.

**Environment:** Python, Django, Java, XML, JQuery, JavaScript, JSON, Rest, GIT, MY SQL, Windows and LINUX.

**Education:**

Bachelors of Technology (Electronics and Communications Engineering) 2006

Masters in Communications and Radar systems 2009