Gurminder Singh

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Professional Summary:

- Around 5+ **years** of IT Experience in **designing, developing, testing,** and **implementing** 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 used: **Beautiful Soup, NumPy, SciPy, matplotlib, Dash, Pickle, PySide, python-twitter, Pandas, PySpark, Tensorflow, networks, urllib2, MySQL** dB for database connectivity.
- Excellent experience in developing web applications implementing Model View Control architecture using **Django, Flask** and **FastAPI** Python web application frameworks.
- Expertise in **Linux** administration, using shell scripting for automation and DevOps practices.
- Experience with Design, code, and debug operations, reporting, data analysis,and web applications utilizing Python.
- Experience working in **DevOps tools like Docker, Jenkins, Kubernetes, Ansible, Terraform, Grafana.**
- Excellent experience in Python development under Linux OS (Debian, Ubuntu, SUSE, RedHat Linux, Fedora)
- Experience in providing highly available and fault-tolerant applications utilizing orchestration technologies like **Kubernetes and EKS on AWS**.
- Experienced in version control tools such as **SVN** and **GIT**.
- Experienced in creating AWS IAM and Security Group in Public and Private Subnets in VPC. Created AWS Route53 to route traffic between different regions.
- Used all major **ETL transformations** to load the tables through Informatica mappings.
- Sound experience in Object Oriented Programming using concepts like Multi-Threading, Exception Handling, and Collections.
- Knowledge of Cloud innovations including Infrastructure as a Service, Platform as a Service, and Software as a Service supplier **(Iaas, PaaS, and SaaS).**
- Knowledge about setting up Python REST API framework using Django.
- Creating visual representations of data to communicate findings effectively (charts, graphs, dashboards) after transformation and cleansing.
- Experience in implementing Model View Control (MVC) architecture using server-side applications like Django, Flask, and Pyramid for
- developing web applications.
- Good Knowledge of implementation of Python best Practices (PEP-8).
- Good at writing SQL Queries, Stored procedures, functions, packages, tables, views, and triggers using relational databases like Oracle, MySQL, and DB2.
- Proficient in using editors VSCode, PyCharm, Eclipse, Notepad++, and Sublime Text while developing different applications.
- Experienced in developing **test automation** frameworks with pytest, mypy, flake8, tox and Selenium.
- Having good knowledge in using NoSQL databases like Apache Cassandra and Mongo DB.
- Having experience in **Agile Methodologies, PCI, Scrum stories, and sprints** experience in a Python-based environment, Data analytics, data wrangling, and Excel data extracts.
- **Communication skills, efficient time management, and organization skills,** ability to handle multiple tasks and work well in a team environment.

Technical Skills:

- **Programming Languages**: R, Python, SQL, Go, JavaScript, Shell Scripting
- **Libraries/Frameworks and Technologies**: Django, Flask, Beautiful Soup, httplib2, Jinja2, HTML, CSS, DOM, SAX, jQuery, AJAX, XML, AngularJS, Bootstrap, NumPy, Matplotlib, Pickle, Pyside, PySpark, SciPy, wxPython, PyTables, pdb, Spark, web2py, Pyramid, SQLAlchemy, Boto3, Paramiko, Client-go
- **Big Data Technologies:** MongoDB, Apache Spark, Hadoop
- **Protocols and Other Technologies**: TCP/IP, HTTP/HTTPS, SNMP, SMTP, LDAP, UDP
- **Version Control**: GIT (GitHub, BitBucket), SVN
- **Test Automation Tools**: pytest, mypy, flake8, tox, Selenium
- **IDEs/Development Tools**: VStudio, Android Studio, PyCharm, Eclipse, Sublime Text
- **Application Tools**: Bugzilla, JIRA
- **Methodologies**: Agile, Scrum, Waterfall
- **Databases**: PostgreSQL, SQL Server, MySQL, Teradata, Oracle, MongoDB, AWS RDS
- **Software Packages and Reporting Tools:** MS Word, Advanced MS Excel, MS PowerPoint, SQL Plus, SSRS, Tableau
- **Operating Systems**: Linux/Unix, Windows Variants, MacOS
- **Cloud Environment**: AWS Services (EC2, ELB, VPC, RDS, AMI, IAM, CloudFormation, S3), Azure DevOps, VMs, Google GCE, GKE.

Professional Experience:

Python Developer

Synechron · Mississauga, ON Nov 2021 – Present

Responsibilities:

- Responsible for creating automated scripts in Python 3 for testing, to automate data processing and analysis and deployment.
- Responsible for gathering requirements, system analysis, design, development, testing, and deployment.
- Understanding and applying statistical techniques to analyze data and draw insights.
- Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
- Designed the front end and back end of the application using Python on Django Web Framework.
- Developed robust Python/Bash scripts and cron jobs to automate daily tasks, significantly reducing manual effort and increasing operational accuracy.
- Orchestrated data processing workflows from multiple Line of Business (LOB) sources, extracting, transforming, and loading (ETL) diverse datasets for downstream consumption.
- Managed backend development, including database design and query optimization using Postgresql, supporting data handling from Lines of Business (LOBs) for downstream processing.
- Rewrite existing Python/Django modules to deliver certain formats of data.
- Collecting, cleaning, and preprocessing data to make it suitable for analysis.
- Wrote and executed various MySQL database queries from Python-MySQL connector and MySQL DB. Package.
- Created a repository and pushed the code to GitHub Enterprise.
- Used PyUnit, the Python unit test framework, for all Python applications.
- Worked with LAMP (Linux, Apache, MySQL, and Python) Architecture.
- Involved in Developing a Restful service using the Python Flask framework.
- Worked on several Python packages like Paramiko, re (Regular Expression), and sockets to automate scripts.
- Worked on Python script to enable Open VPN 3 Client Services.
- Worked on Python script to load updated packages in NFVI client adapter and change configurations.
- Use Python unit and functional testing modules such as unit test, unittest2, mock, and custom frameworks in-line with Agile
- Software Development methodologies.
- Involved in Continuous Integration and delivery prime responsible for creating a structured load build and delivery system utilizing Git/Bitbucket to increase productivity and software quality.
- Responsible for debugging the project monitored on JIRA (Agile).

Environment: Python, Flask, MVC, Django, MySQL, PostgreSQL, REST API, JavaScript, JQuery, Git, Apache, Linux, PyCharm, Eclipse, IntelliJ, Spark, Hadoop

Python Developer
Diverse Lynx · Toronto, ON Aug 2020 – Nov 2021

Responsibilities:

- Designed and developed the server module and resolved issues and was responsible for its enhancements.
- Architected and developed Python and Django for the backend development and front-end application using React, Webpack, Redux, ES6/7, and PostgreSQL for the database.
- Worked on Django ORM module for signing complex queries.
- Load balancing of ETL processes, and database performance tuning ETL processing tools.
- Loaded the data from Teradata to HDFS using Teradata Hadoop connectors.
- Defined different Django API profiling techniques for faster rendering information.
- Used Ansible, Vagrant, and Docker for managing the application environments.
- Developed Python scripts for testing the car's functioning on different services.
- Implemented various Validation Controls for form validation and implemented custom validation controls Oriented JavaScript.

- 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.
- Worked on Java development or Java programming/scripting, Django, and RabbitMQ queues.
- Imported data using Sqoop to load data from MySQL to HDFS on a regular basis.
- Used Circle CI for continuous integration and delivery platform over GIT.
- Used Django Migrations for designing and expanding the database.
- Automated most of the daily tasks using Python scripting.
- Involved in the CI/CD pipeline management for managing the weekly releases.
- Worked on Jira for managing tasks and improving individual performance.
- Making recommendations to the team in terms of appropriate testing techniques, and shared testing tasks.

Environment:

- Python 2.7, AWS, DevOps, Django, Django Rest, Flask, React, Redux, Circle CI, Splunk, GitHub, Ansible, HTML5/CSS, PostgreSQL, Kubernetes, AWS, S3, EC2, EBS, PyCharm, Microsoft Visual Code, Linux, Shell Scripting, JIRA.

Qualitest · Bengaluru, Karnataka April 2016 – July 2017 Python Developer

Responsibilities:

- Work with a team of developers on Python applications for RISK management.
- Design, develop, test, deploy, and maintain the website.
- Designed and developed the UI of the website using HTML, AJAX, CSS, and JavaScript
- Designed and developed a data management system using MySQL.
- Rewrite existing Python/Django modules to deliver certain formats of data.
- Used Django Database APIs to access database objects.
- Wrote Python scripts to parse XML documents and load the data in the database.
- Handled all the client-side validation using JavaScript.
- Expertise in writing Constraints, Indexes, Views, Stored Procedures, Cursors, Triggers, and User Defined functions.
- I have also used Selenium Library to write a fully functioning test automation process that allowed the simulation of submitting different requests from multiple browsers to the web application.
- Used jQuery for all client-side Java script manipulation.
- Created unit test/regression test framework for working/new code
- Using a Subversion control tool to coordinate team development.
- Developed entire frontend and backend modules using Python on Django Web Framework.
- Responsible for debugging and troubleshooting the web application.
- Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.

Environment:

Python, Django, MySQL, HTML, CSS, AJAX, JavaScript, SVN, Linux

Education:

Bachelor's Degree: Bachelors in "Information Technology" from BBSBEC, Punjab, India

PG: PG Diploma in "Computer system technology - Networking" from Centennial College, Ontario, Canada