**Naqeeb Khan**

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**Python Developer**

**Work summary**

* Hands-on 8+ experience as a Python Developer and a proficient coder in multiple languages and environments including Python, REST API, AWS, C, R, C++, and SQL.
* Experience in designing and developing multi-tier enterprise applications using Java 1.7/1.8, JEE& related technologies such as Core Java, JDBC, Servlets, Spring, JDBC, Hibernate, XML, JSP, HTML and Web services.
* Extensive experience in Text Analytics, developing different Statistical Machine Learning, Data Mining solutions to various business problems and generating datavisualizations using Python.
* Worked on several Python packages like NumPy, matplotlib, Beautiful Soup, Pickle, PySide, SciPy, wxPython, PyTables etc.
* Sound knowledge in spring, Hibernate, RDBMS, Web, XML, Ant/Maven, HTML, Python, Shell Scripting.
* Experience in developing web services (WSDL, SOAP and REST) and consuming web services with Python programming language
* A highly immersive Data Science program involving Data Manipulation & Visualization, Web Scraping, Machine Learning, Python programming, SQL, GIT, Unix Commands, NoSQL, MongoDB, Hadoop.
* Extensive experience in creating Tables, Views, Indexes, Stored Procedures, Cursors, Triggers and T-SQL queries.
* Executed MySQL database queries from python using Python-MySQL connector and MySQL dB package to retrieve information.
* Experienced in developing Web Services with Python programming language and good knowledge of Web Services with protocols SOAP, REST.
* Experience in using third-party tools like Telerik, Dev Express, and kendo Controls and worked containerizing applications using Docker and Vagrant and familiar with JSON based REST, SOAP, and Amazon Web Services.
* Experienced in working with various Python Integrated Development Environments like Net Beans, PyCharm, PyScripter, Spyder, PyStudio, PyDev and Sublime Text.
* Designed, configured, and deployed Amazon Web Services for a multitude of applications utilizing the AWS stack (Including EC2, Route53, S3, RDS, Cloud Formation, Cloud Watch, SQS, IAM), focusing on high-availability, fault tolerance, and auto-scaling
* Expertise in establishing database connections for Python by configuring packages like MySQL-Python.
* Experience in Machine learning using NLP text classification, Churn prediction using Python.
* Extensive Experience in Business Intelligence (BI) Tools like SQL Server Integration Services (SSIS), SQL Server Reporting Services (SSRS), SQL Server Analysis Services (SSAS).
* Experience or strong interest in foundational machine learning models and concepts like regression, random forest, boosting, GBM, NNs, HMMs, CRFs, MRFs, deep learning.
* Hands on Experience in building RESTful APIs, architecting complex systems with batch and real-time workloads, monitoring and instrumenting production systems.
* Hands on Experience in building scalable data and advanced analytics solutions on AWS.
* Expertise in weekly progress reports as well as a final research summary upon completion of the project.
* Worked on various applications using python integrated IDE Eclipse, PyCharm, NetBeans, and Geany.
* Pleasant experience in developing web applications and implementing Model View Control (MVC) architecture using server-side applications like Django, Flask, andPyramid.
* Expertise in working with different databases like Microsoft SQL Server, Oracle, MySQL, Cassandra, PostgreSQL and Good knowledge in using NoSQL databases MongoDB.
* Worked with PHP, MYSQL, CSS, JavaScript, AJAX, andXHTML to build a fully Web 2.0 compliant networking website.
* Excellent working knowledge of UNIX and Linux shell environments using command line utilities.
* Strong experience in PL/SQL experience including writing stored procedures and complex queries
* Hands on experience working in WAMP (Windows, Apache, MYSQL, and Python/PHP) and LAMP (Linux, Apache, MySQL, and Python / PHP) Architecture.
* Familiarity with development best practices such as code reviews, unit testing, system integration testing (SIT) and user acceptance testing (UAT).
* Design and maintain databases using Python and developed Python-based API (Restful Web Service) using Flask, SQL Alchemy and PostgreSQL.
* Highly motivated, quality minded developer, with proven ability to deliver applications against tight deadlines.
* Working knowledge ofthe multi-tiered distributed environment, OOAD concepts, a good understanding of Software Development Lifecycle (SDLC)
* Excellent Experience of Databases such as MySQL, Microsoft SQL Server, PostgreSQL, SQL/PLSQL concepts
* Possess good interpersonal, analytical presentation Skills, ability to work in Self-managed and Team environments.

**Python Developer**

**Marriott International’s - Gaithersburg, MD July 2016 to Present**

**Description:** Marriott International, Inc. is a leading global lodging company with more than 6,500 properties across 127 countries and territories, reporting revenues of more than $22 billion in fiscal year 2017. In 2017, Marriott was ranked #33 on Fortune's "100 Best Companies to Work For" list, its twentieth appearance on the list. Founded by J. Willard and Alice Marriott and guided by family leadership for nearly 90 years, the company is headquartered outside of Washington, D.C. in Bethesda, Maryland.  
  
**Responsibilities:**

* Worked with HTML/HTML5, CSS/CSS3, JavaScript in developing web applications.
* Designed and managed API system deployment using fast http server and Amazon AWS architecture.
* 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.
* Developed frontend and backend modules using Python on Django Web Framework with GIT.
* Successfully migrated the Django database from MySQL to PostgreSQL with complete data integrity.
* Used Test driven approach for developing the application and Implemented the unit tests using Python Unit test framework.
* Worked on Python Open stack API's used Python scripts to update content in the database and manipulate files.
* Wrote and executed various MYSQL database queries from Python using Python-MySQL connector and MySQL dB package
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Familiar with JSON based REST Web services and Amazon Web services (AWS).
* Setting up databases in AWS using RDS, DynamoDB, storage using S3 bucket and configuring instance backups and archives to Glacier archives, and configured AWS Redshift for data Warehousing.
* Created AWS Launch configurations based on customized AMI and use this launch configuration to configure auto scaling groups.
* Utilized Cloud Watch Events to collect data from other AWS resources and transfer them to SQS and SNS for alerting solar.
* Created S3 buckets in AWS and stored files and Enabled Versioning and Security for files stored.
* Worked on Selenium testing framework.
* Used Cloud Front to deliver content from AWS edge locations to users, allowing for further reduction of load on front-end servers.
* Experienced in Installing, Configuring and Managing Docker Containers, Docker Images for Web Servers and Applications servers such as Apache Tomcat using Docker and integrated with Amazon MySQL RDS database.
* Writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on MySQL databases.
* Developed automation scripts to test storage appliances in Python.
* Developed consumer-based features and applications using Python, Django, HTML, Behavior Driven Development (BDD) and pair-based programming.
* Involved in Loading, analyzing and extracting data to and from Oracle database with Python.
* Worked with python Unit test library which was used for testing many programs on Python and other codes.
* Used AJAX for Better interactivity for the end user and easier navigation and AJAX is compact.
* Wrote Python scripts to parse XML documents and load the data in database.

**Environment:** Python, Django, JSON, AJAX, JSON, RESTful, SQL, MYSQL, PostgreSQL, AWS, Docker, XML, Open stack API, CloudFront JavaScript, GIT, SOAP, PyCharm, HTML, CSS.

**Python Developer**

**CRL - Tucson, AZ May 2013 to June 2016**

**Description:** The Computational Chemistry group within Crown Research Laboratories (CRL) has a substantial amount legacy code written in C / C++, Ruby, Perl and bash. This legacy code will need to be refactored and / or rewritten to align with LRL IT architectural and DevOps best practices.

**Responsibilities:**

* Used HTML, CSS, AJAX, JSON designed and developed the user interface of the website.
* Wrapper developed in Python to run this application along with other applications.
* Wrote python scripts to parse XML and JSON reports and load the information in database.
* Handled UI and server-side programming.
* Created, activated and programmed in Anaconda environment. Wrote programs for performance calculations using NumPy and SQLAlchemy.
* Backend scripting/parsing using Perl and Python
* Enhancing the tests to support 16 threads and run in MP environment.
* Parsers written in Python for extracting useful data from the design data base.
* Development of XMLs for several components which maintains data for several registers
* Development of data structures, xml parsing using Python.
* Used REST based micro services with REST template based on RESTful APIs and designed, developed the UI for the client websites by using HTML, CSS, jQuery and React.js.
* Usage of advance features like pickle/unpickle in python for sharing the information across the applications
* Representation of the system in hierarchy form by defining the components, subcomponents using Python and developed set of library functions over the system based on the user needs.
* Rewrite existing Java application in Python module to deliver certain format of data.
* Creating Python based micro services and refactoring/enhancing exiting services.
* Worked on developing internal testing tools which were written in Python. Worked on Libraries like Pandas for data manipulation and analysis.
* Setup automated cron jobs to upload data into database, generate graphs, bar charts, upload these charts to wiki and backup the database.
* Development of several Python APIs that works both in Linux and windows and maintaining them using the revision control GIT.
* Used Django framework for application development. Excellent knowledge with distributed storages (HDFS) and distributed processing (MapReduce, Yarn)
* Involved in Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* For the manipulation of data from the database various queries using SQL were written and created a database using MYSQL.
* Worked on Jenkins continuous integration tool for deployment of project. Played a key role in a development wide transition from Subversion to Git, which resulted in increase in efficiency for the development community
* Deployed the project into Heroku using GIT version control system.

**Environment:** Linux, Python, Django, HTML, XML, JavaScript, AngularJs, JQuery, MySQL, Amazon s3, Jenkins, Perl, Pandas, Eclipse, GitHub

**Java Developer**

**Info Edge solutions - Hyderabad, IND January 2011 to March 2013**

**Description:** Info Edge has an in-depth understanding of the Indian consumer internet domain. With years of experience in the domain, strong cash flow generation and a diversified business portfolio, it one of the very few profitable pure-play internet companies in the country.  
  
**Responsibilities:**

* Consuming and exposing various Web services using JAX-RS and JSON to different systems for business services.
* Extensively worked with core java like collections, String Builder, and interfaces
* Used Apache CXF framework to build complex frameworks.
* Developed complex Web Services and tailored JAX-RS API to suit the requirement.
* Development of UI models using HTML, JSP, JavaScript, AJAX, Web link and CSS.
* Primarily focused on the spring components such as Spring MVC, Dispatcher Servlets, Controllers, Model and View Objects, View Resolver.
* Worked on SOA/Web Services and created request and response WSDLs.
* Developed Spring Beans and configured spring using applicationContext.xml.
* Assisted Database Developers using PL/SQL for managing data associated with the tables.
* Used JDBC to connect to the Oracle database and JNDI to lookup administered objects.
* Developed a multi-user web application using JSP, Servlet, JDBC, Spring Boot and Hibernate framework to provide the needed functionality.
* Involved in implementation of enterprise integration with Web Services and Legacy Systems using SOAP and REST (Using Axis and Jersey frameworks).
* Generated DAO's to map with database tables using Hibernate. Used HQL (Hibernate Query Language) and Criteria for database querying and retrieval of results.
* Uses Second Level Cache to enhance performance and Proper Memory Management
* Involved in J2EE Design Patterns such as Data Transfer Object (DTO), DAO, Value Object, and Template.
* Used Spring IOC, AOP modules to integrate with the application.
* Developed SQL Queries for performing CRUD operations in Oracle for the application.
* Used Maven for generating system builds and Bamboo for continuous integration.
* Used LOG4J, JUnit for debugging, testing and maintaining the system state.
* Wrote JUnit Test cases for Spring Controllers and Web Service Clients in Service Layer using Mockito.
* Designed and developed the application using AGILE-SCRUM methodology.

**Environment:** Java/J2EE, Core Java, Jdk1.4, Spring Boot, Hibernate, Webservices, JAX-RS, Mockito, WADL, SOAPUI, JSP, JDBC, jQuery, AJAX, Html, CSS, Maven, log4j, Oracle, MS SQL, PL/SQL, SQL Developer, JIRA, JMS, APACHE AXIS, Source Tree, IntelliJ, GIT, UNIX, AGILE-SCRUM.