Sukhbir Singh Ghotra

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Strongly knowledgeable experienced Software Python Developer, with robust professional work experience looking to bring solid skill sets and a proven record of software development, testing and support skills to a highly established organization.

Skills

- Python, MongoDB, SQL
- SQL, MongoDB, MS SQ Server 2008-2019
- JavaScript, HTML5/CSS3

- Web Services, RESTful APIs, Pandas, NumPy
- FastAPI, Flask, Django
- Team co-ordinations

- Excellent Communication Skills
- Excellent Organizational Sk
- Problem Solving Skills

Educational Qualifications & Certifications

Bachelor of Software Development   **2009 – 2014**
Seneca College @York University   Toronto, ON
Python Development Training   **2023**
Intellipaat   Online
Certificate Link: https://lms.intellipaat.com/certificate-link/?Yz01OTEwJnU9MTkwNTY5JmV4dD0x

Experiences

Services and Housing in Province - Non-Profit Domain – Feb 2023 – Jan 2025	
Role	Software Python Developer
Technology	Python, FastAPI, Flask, GitHub, OpenShift, Deployment Pipelines, SQL, SQLite, SQLAlchemy, MSSQL Server 2019
Description	Developed Python API solution for clients and stakeholders to calculate the pricing based on the input data to API.
Responsibilities	- Python 3, FastAPI and Flask technologies utilized to implement the technical aspects back-end of the application. - Django, Flask based web portal application with extensive features for user management and data management using SQL, SQLite. - Technically proficient in UNIX Shell Scripting and job scheduling in Unix/Linux Platform - Compose, Test, and Implement UNIX Shell Scripts to the Test, Development and Production environments for various automated procedures as requested. This also included the use of database tools and applications such as Stored PL/SQL, stored procedures and triggers. - Developed and maintained Azure DevOps deployment automation, reducing deployment time by 60% and improving deployment success rate by 30% - Experience in Cloud computing on Google Cloud Platform with various technology like Dataflow, Pub/Sub, Big Query and all related tools - Python 3 was used for most of the project, utilized PyCharm IDE tool for development, debugging and testing. Built many functions, classes, data models, CRUD functionalities, routing functions on daily basis. Pushed

well-written code to Git-Bucket for peer reviews, approval, and merged into different branches.
- Experience with Flask and Django building web portal applications with databases connection SQL, SQLite and SQLAlchemy.
- Worked with Python modules including Pandas and NumPy. Pandas was utilized for building data frames and data handling processes.

Citi Bank - Investment - Banking Domain – Sept 2022 - Jan 2023

Role	Software Senior Python Developer
Technology	Python, FastAPI, Flask, Pandas, MongoDB, GitHub, OpenShift, Deployment Pipelines, SQL, SQLite, SQLAlchemy, MSSQL Server 2019
Description	Developed Traders Bond Calculations solution for clients and stakeholders to calculate the pricing based on the input data to API.
Responsibilities	• Python 3, FastAPI and Flask technologies utilized to implement the technical aspects back-end of the application. • Django, Flask based web portal application with extensive features for user management and data management using SQL, SQLite. • Compose, Test, Implement (along with support documentation) procedures driven by UNIX Shell Script, advanced PL/SQL, stored procedures and triggers • Developed and maintained CI/CD pipelines, reducing software release times by 70% and improving overall code quality by 40% • Developed and maintained GCP security policies, ensuring compliance with industry standards and regulations • MongoDB used for data management of the application, establishing database connection from API endpoints. • Write database scripts using SQLite, SQLAlchemy, SQL; database store procedures, database schema, functions, triggers, tables, views, etc... • Experience in working with Python built-in libraries and packages such as Pandas for data extraction, manipulation, and wrangling. • Experience with Python GIL, Global Interpreter Lock, threading, and memory management. Multi-threading and multi-processing. • Backend API was built using FastAPI, implemented different types of endpoints including post, get, put, delete, and delete all. Different business logic functions called from these endpoints. • GitHub helped in the project to create, maintain and sharing of the project repositories, creating, approving, and merging branches. • Deployment pipelines to display project into different servers including dev, testing and production servers. OpenShift architecture assisted to speed up the deployment and management of the servers/containers' configurations.

TD Bank - TD Securities - Banking Domain – Oct 2021 - Aug 2022

Role	Software Python Developer
Technology	Python, SQL, SQLite, SQLAlchemy, FastAPI, MSSQL Server
Description	Developed Corporate Investment Banking (CIB) Data-Mart Report Generating solution for executives and upper management to generate various types of reports.

Responsibilities	• Understand client requirements, design, and build the software/application components using Python, SQL, SQLite and other latest technologies.
	• Python 3 used for most of the project, utilized PyCharm IDE tool for development, debugging and testing. Built many functions, classes, data models, CRUD functionalities, routing functions on daily basis. Pushed well-written code to Git-Bucket for peer reviews, approval, and merged into different branches.
	• Experience with Flask and Django building web portal applications with databases connection SQL, SQLite and SQLAlchemy.
	• Worked with Python modules including Pandas and NumPy. Pandas utilized for building data frames and data handling processes.
	• Write database scripts using SQLite, SQLAlchemy, SQL; database store procedures, database schema, functions, triggers, tables, views, etc...
	• Work with other developers to solve problems on many different issues including data wrangling, data manipulation and data handling.
	• Attend daily stand-up meetings to cross functioning to update about progress, blockers, and any issues. Estimation of the tasks, allocations, and storylines. Utilized JIRA for all tracking tasks, bugs and other project-related issues.

GryphTech Phoenix - Real Estate - IT Domain — May 2021 - Oct 2021

Role	Software Developer / Support
Technology	C#, SQL, MSSQL Server
Description	Worked on the main project that supplied solutions to the real estate brokerages across the globe. Application was built based C# and MSSQL Server. Main tool utilized Microsoft Visual Studio 2019. Prepared extensive application with dynamic features with latest technologies and frameworks.
Responsibilities	• Supported, Designed, developed, tested & implemented different components of the application using C#, SQL databases. Supported developers with Web and Client/Server Applications utilizing technologies C#, HTML5, CSS/SCSS, SQL Server etc.
	• Knowledge of C#.NET frameworks. Design patterns and OOPs fundamentals.
	• Strong Expertise in Python Development, Django, and Flask frameworks.
	• Managed databases and developed SQL scripts to create database objects such as Tables, Views, Stored Procedures, Functions, Triggers etc. using MS SQL Server 2008/2012/2016/2019.

Prompta Inc. - Survey Conduction - Change Management — Jan 2020 - Apr 2021

Role	Software Python Developer
Technology	Python, PostgreSQL, SQL, MSSQL Server
Description	Built a "Survey Conduction Project" for clients to perform surveys for their employees on a larger scale. Prepared extensive application with dynamic features with latest technologies and frameworks. Utilized IDE PyCharm, Jupyter Notebook and Microsoft Visual Studio 2019.
Responsibilities	• Designed, developed, tested & implemented different types of applications including Web and Client/Server Applications utilizing technologies Python, React JS or Angular, HTML5, CSS/SCSS, SQL Server etc.

- Extensive GUI development experience using Django and Flask frameworks & SQL Server Management Studio for database management. Knowledge of C#.NET frameworks.
- Built a "Survey Conduction Project" for clients to perform surveys for their employees on a larger scale. Prepared extensive application with dynamic features with latest technologies and frameworks. Utilized IDE PyCharm, Jupyter Notebook and Microsoft Visual Studio 2019.
- Experience in building, consuming Web Services and working with third party web service APIs (REST) and Web Services using Ajax and jQuery, Hands-on experience in developing Single page applications, developing, and consuming REST APIs. GraphQL queries. Experience working with Kafka & Docker
- Managed databases and developed SQL scripts to create database objects such as Tables, Views, Stored Procedures, Functions, Triggers etc. using MS SQL Server 2008/2012/2016/2019.
- Used NUnit testing framework to create unit tests to automate test cases for web applications.

CGI - Found Realty Property Group - IT and Consulting — June 2016 - Dec 2019	
Role	Software Application Developer
Technology	Python, HTML5, CSS/SCSS, JavaScript, Angular, React and XML
Description	Built a real-estate project named "Found Realty Property Group Project" with extensive front-end features and strong back-end code written with best practices
Responsibilities	- Designed and Developed web applications using Python, HTML5, CSS/SCSS, JavaScript, Angular, React and XML for front-end components of the applications. - Developed high-quality software code using Python programming language to accomplish design specifications, and project requirements as well as with delivered applications within deadlines. - Built applications using Django in Python technologies using client and server-side scripting. - Built a real-estate project named "Found Realty Property Group Project" with extensive front-end features and strong back-end code written with best practices. - Expertise in MS SQL Server 2008/2012/2016/2019, writing SQL scripts, store procedures and store schema, Functions, Triggers, Cursors, etc. - Optimized query performance and populated test data into applications databases. Performed quality assurance and testing of SQL server environment.

WSIB - Ultimate Insurance - Government/Insurance Domain — June 2014 - May 2016	
Role	Software Application Developer
Technology	Python, Angular, React, HTML5, CSS/SCSS, JavaScript.
Description	Built a project named "Ultimate Insurance Project" with strong front-end functionalities as well as extensive back-end code functionalities with new technologies.

Responsibilities	• Experience in Frontend technologies: Python, Angular, React, HTML5, CSS/SCSS, JavaScript.
	• Designed, implemented, and maintained Java applications throughout all phases of the Software Development Life Cycle (SDLC).
	• Experience with Java and JEE frameworks, Java programming language object-oriented concepts.
	• Developed and delivered extensive features and functionalities of web application products using Java, JDBC, SQL, Servlets, XML, Java-API and Spring, SQL Server 2008/2012/2016/2019.
	• Built a project named "Ultimate Insurance Project" with strong front-end functionalities as well as extensive back-end code functionalities with new technologies.
	• Expertise in SQL Server, including indexing, stored procedures/views, table design and T-SQL.

BlackBerry Inc. - Internship - Telecommunications — May 2012 - Aug 2013	
Role	Software Java Automation Developer Intern
Technology	MS Visual Studio and SQL Server Management. Django (Python) and C#.NET frameworks for both front-end and back-end
Description	Worked with Django (Python) and C#.NET frameworks for both front-end and back-end using MS Visual Studio. Developed and tested all application features in .NET framework
Responsibilities	• Completed Java and VB Scripting testing for the BB10 mobile device applications.
	• Used MS Visual Studio as IDE for development and SQL Server Management for databases.
	• Utilized HP UFT automation tool to create test cases step by step into the automation framework.
	• Experience working with Django (Python) and C#.NET frameworks for both front-end and back-end using MS Visual Studio. Developed and tested all application features in .NET framework.
	• Migration of test plans from one framework (Robot) to another (Java).
	• Developed and managed SQL database stored procedures, schemas, triggers and other databases activities related to the application in all phases.