



# Bilal Khan

Python Developer | Full Stack Developer

Software Developer (Acquainted 5.9 Year of Experience)  
& Lean Six Sigma Green Belt certified, Pune

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■ Infosys Limited, Pune

January 2024 - to present

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Role: - Python Developer

## SKILLS

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- **Languages:** - Python, JavaScript, SQL
- **Python Based Frameworks and Libraries:** - Flask, Django, Django Rest framework, Pandas, Pydantic, JSON, Kafka, Python Selenium WebDriver, SQL Alchemy
- **Databases:** My SQL, PostgreSQL, MongoDB
- **Web Components:** - HTML/HTML5, CSS/CSS3, CSS Selector, Xpath , Bootstrap, JQuery, GCP
- **Tools:** Microsoft Power automate, Octane, Jira
- **Platforms:** - Windows, Linux
- **Testing scripts and Frameworks:** -Pytest, Unit Testing, BDD Cucumber

## PROFESSIONAL EXPERIENCE

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### Banking Domain ((Leading US BANK)

■ **Reconciliations using Python for Global Markets:**

- Developed and implemented data extraction and filtering processes from large CSV files using Python scripts with business logic and regex for efficient data handling.
- Onboarded extracted data into the Canvas application, structuring it based on reconciliation dates and types, ensuring accurate data formatting.
- Executed reconciliation using a dedicated Python script, aligning column names and performing SQL-like joins to identify matched and unmatched records.
- Rendered results through a user-friendly dashboard, providing insights into match rates, unmatched records, and key metrics.
- Conducted thorough unit testing and validation, preparing the code for seamless deployment from development to production environments.

■ Tata Consultancy Services Limited, Pune

Feb 2019- Dec 2023

### Telecom Domain (Comcast Cable Communication)

- **Alarm Sync Platform hardening:**

We have pulled data from three Portals, did certain checks with python scripts to find the Alarm Status and have again published it to Kafka, this has resulted in Alarms in Sync across all the portals. This was a User story which was part of a Telecom Domain project.

- **Concourse CI/CD Implementation:**

Designed and implemented Concourse CI/CD from scratch, onboarding the team and creating pipelines using Fly CLI for code build, testing, and deployment. This initiative significantly enhanced productivity and reduced delivery time for business processes.

- **API Test Automation:**

Performed API test automation using the BDD framework and Requests library. Developed multiple test cases to validate API responses. This project, within the telecom domain, involved automating API calls between various servers.

### Digital Manufacturing (Jaguar land rover)

- **Django Project:**

Developed a web-based Buck Completion Report/Dashboard using Django, incorporating Jinja templating, named routes in urls.py, and REST API integration with JSON for CRUD operations. Modular apps were created with individual templates. Web pages were styled using CSS and the Bootstrap framework, with media queries ensuring responsiveness and standardization across devices.

- **Report Generation:**

Created a script to check the logs of multiple programs which generates report showing the current status and fires email to notify. Script was deployed on Linux environment with Cron being set to run automatically every 3 hours. This has shown increased productivity and time reduction for the Business.

- **OCR Implementation with Python:**

Built and implemented an OCR script using Python-Tesseract, EasyOCR, Pillow, and Pathlib. The script applies image preprocessing techniques such as skew correction and noise reduction, processes files from a source folder in rb mode, and updates the destination folder for seamless data retrieval by subsequent scripts. Pathlib was used for efficient file handling and organization.

### CERTIFICATES

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Advanced Python Concepts	- Lex 2024
The Comprehensive SQL Course by Malvik Vaghadia	- Udemy 2023
Docker for Python Django Developers by Bharath Thippireddy	- Udemy 2023
API Automation Testing with Python & BDD Framework BY Rahul Shetty	- Udemy 2023
Python Django - Build Complex MultiVendor Ecommerce System	- Udemy 2023
The Complete SQL Bootcamp 2022 Go from Zero to Hero by Jose Portilla	- Udemy 2022

## EDUCATION

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- Bachelor of Technology (B. Tech) -65.20% 2014-2017
  - Dr. APJ Abdul Kalam Technical University (AKTU) Lucknow.
- Senior Secondary Education, CBSE - 75.40% 2013-2014
  - Rishabh Academy Meerut.
- Higher Secondary Education, CBSE - 76% 2011-2012
  - Rishabh Academy Meerut.

## ACHIEVEMENTS

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- Got appreciation award for Project Ideas for Future for a POC on automation of a process with soft saving of £13k for the ABB server reset in Digital Manufacturing via deployment of a script on the server.

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## PERSONAL DOSSIER

**DOB:** 04<sup>th</sup> July 1995

**Marital Status:** Single

**Hometown:** Meerut (Uttar Pradesh)

**Languages Known:** English, Hindi, German