

# MAHAD WASEEM

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## SUMMARY:

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- Hands on experience in Python, Django, DRF, AWS and JavaScript.
- Experience of maintaining large scale enterprise level US based automation products developed in Python/Django/Javascript.
- Experience of Rest frameworks, writing Restful services, consuming Restful services, API Integrations and tools to build and test API's like Postman, Django Test Factory etc.
- Experience of using Data Science libraries like Pandas to handle large data sets and transformation of the data.
- Have good knowledge of LINUX/UNIX server and have configured and deployed different tools(Pycharm, Sqlyog, Mysql Workbench etc) and websites(Odoo,Django) on Amazon remote servers on staging and production environments.
- Have a bit devops experience and have written several automation scripts responsible for auto deployments and updation of code on staging and production environments.
- Have experience in version control systems like Github and Gitlab and also have experience of project management tools like Jira.
- Have experience of TDD(Test Driven Development) and working in a non QA environment.
- Experience of Rest frameworks, API Integrations and tools to build and test API's like Postman.
- Experience in building responsive web applications using HTML/HTML5,CSS/CSS3,BOOTSTRAP,JAVA SCRIPT,AJAX and JQUERY.
- Experience of developing and customizing Odoo modules and maintaining Odoo web applications.
- Knowledge in UML,OOP,OOAD,data models, XML and JSON.
- Quick learner,team player,good QA and analytical skills,great communication skills,excellent presentation skills and confidence level.
- Ready to take an independent or team challenge.

## TECHNICAL SKILLS:

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**Languages/Frameworks:** Python, Django, Flask, Django Rest Framework, JavaScript(Jquery, Ajax, React), Assembly Language, Html/Css, Bootstrap, System Programming.

**Operating Systems:** Windows, Linux, Ubuntu.

**Testing Libraries:** Jasmine, Python unittest, Pytest, Selenium.

**Database Systems:** MySql, SqlServer, Sqllitedatabase, SqlAlchemy, Redis, Cloudant.

**Tools:** Microsoft Visual Studio, Pycharm,Eclipse, Matlab(Image Processing), ServiceNow, Virtual Box, Trello, Jira, Git and Postman.

**Others Expertise:** Json,Xml,Data Science, Machine Learning.

## WORK EXPERIENCE:

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### Associate Software Engineer(Python/Django)

July 2016 - Nov 2017

#### QC Technologies

Lahore, Pakistan.

#### Key Responsibilities:

- Writing reusable, testable and efficient Python code.
- Developing user-facing elements and integrating them with server side logic.
- Preparing design documents containing ERD's and possible solutions technical details.
- Minimize bugs through TDD(Test Driven Development) approach.
- Writing server side processes, implementing core back end logics and db interactions.
- Writing secure and flexible API's to return required data/information.
- Writing backend core python client scripts to update data on the client's machine.
- Testing back end processes via python unit testing libraries.
- Testing API's using POSTMAN, django test client and request factory.

## TRAININGS:

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- The Guardian's website clone(Front end) using twitter **bootstrap**.
- Bookstore using javascript( **jquery**)
- Basic **Git** operations and and its uses.
- Bank Management System (**Core Python**)
- Some basic assignments on **Css selectors**, **Xpath** and **DOM**.
- Ajax Requests (Get and Post)
- Basic Poll Application (**Django**)
- CSV Parser (**Core Python**)
- Web crawler to scrap data from four sites simultaneously using **Beautiful Soup**.
- Debugging using chrome to find and correct bugs in a code snippet.
- Some tasks to cover python advance topics like **Inner functions**, **Lambda functions**, **Magic Methods** etc.

### Software Engineer(Python/Django/Odoo)

#### Intagleo Systems

Nov 2017-2018

Lahore, Pakistan.

#### Key Responsibilities:

- Customizing ODOO(ERP) modules and maintaining ODOO(ERP) web applications for the active customers.
- Integrations of API's like Amazon, Salesforce etc with ODOO(ERP).
- Building restful services using Python frameworks like Django and Flask.
- Maintaining Amazon remote servers and deployments on staging and production servers.
- Writing automation scripts responsible for automatic deployments on staging and production environments.

### **Key Responsibilities:**

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- Experience of working remotely with a global team on an **OpenStack Cloud** project based on **Python** and **Django**.
- Established as Python backend developer maintaining existing features and adding new features to OpenStack cloud infrastructure. Handling OpenStack integration with other tools like **SAT** and **ServiceNow**.
- Experience of working in **IBM Watson** project as a **data engineer** and responsible for data extraction, data processing, loading the data into the databases and worked closely with data scientists.
- Experience of building and maintaining the project's web interface built on the **Flask framework**.
- Responsible for writing automated unit tests using libraries like **Unittest**, **Pytest** and **Selenium**. Ensuring an application meets all expected functional and performance requirements • Providing weekly status updates to the manager on the progress of development efforts and open issues to be resolved
- To ensure the application meets all it's expected functional and performance requirements.
- Responsible for weekly status updates to manager for the progress of the development efforts and open issues to be resolved.

## PROFESSIONAL PROJECTS:

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- **Automated Patient Interaction System:** It is a running product of **Vital Interaction(US based company)** which enables healthcare organizations to interact more effectively with their patients through technology in order to achieve high quality, cost effective patient care. This automated patient interaction system enables you to connect with patients automatically and effectively using two-way email, short message service(SMS) and interactive voice response(IVR) communications.  
**Roll Played:** I have worked on almost all the projects of this product as a Python, Django developer. Following are some of the projects on which I worked on in the past year.  
**Integration Project:** This is the core python backend of the product in which all the core code and core logics of the system are handled. I have developed and added many new features in this project, wrote almost 100-150 tests and have a lot of contribution in this project.  
**Securebeta Project:** This is the user-interface of the system which allows the end users and admins to turn on/off notifications, to do several patient settings, general settings, managing patient reports, handling appointments, recalls etc. This portal is developed using Django and JQuery. SQLAlchemy is used as an ORM. I have added few new interfaces in this web portal.  
**Vi Pycommon:** This is the core python project which is responsible for handling all the common operations of the system like some core backend logics, database queries, database model classes etc. I have added many database model classes, made core code changes and added many db queries in this project.  
**Client Scripts:** This project is in core python that contains actions/scripts that are responsible to get response from the API project and update the returned data/information back on the client's machine. I have added such scripts/actions in this project.  
**API Project:** This project is in Django which contains several API endpoints which are responsible for returning required data/information which is then used to update data back in the client scripts. I have added API endpoints and wrote tests to verify the working of the views using django test client and request factory.  
**Skills used:** Python, django, sqlalchemy, javascript(jquery), python unittesting library, django test client, pycharm.
- **Chatbot for IBM-TSM:** It is a chatbot integrated with the website which is responsible for answering the technical questions of the end users intelligently and also provides the related article's detail.  
**Roll Played:** I was responsible for the complete development of the chatbot using Artificial Intelligence and machine learning.

**Skills Used:** Python, odoo, machine learning, devops, linux, pycharm.

- **IBM Watson ITSM:** This is an IBM's internal product responsible for intelligent ticket routing for the customers using Service Now.

**Roll Played:** I am working as a lead Python developer in this project and handling the backend functionality of the project like data processing, data parsing, API integrations, loading data into the databases and work closely with data scientists. I am also responsible for building and maintaining the project's user interface which is built on Flask.

**Skills Used:** Python, Flask, Data Engineering, Pycharm, AWS EC2, No SQL databases.

- **Automated Storage Provisioning:** It involves the customization of openstack cloud using Horizon Django framework.

**Roll Played:** I have maintained and added new features to the product and contributed in the integration of the ASP with other tools like Service Now and SAT.

**Skills Used:** Python, devops, linux, pycharm, dojo, java, Django.

- **Digital Town Smart Shop App:** Have worked on smart shop app(<http://www.smart.shop/>) for one of the most leading company in terms of smart web <https://digitaltown.com/>.

Smart shop is providing a platform to the users for searching products from millions of records using the Amazon products API. It searches the products from Amazon and user can buy that product. It also provides the facility to user to create and open their own store having their own domain on runtime using the platform. User can also buy .Shop domain using the Shop platform.

**Roll Played:** I have maintained and added new features to the backend of the dynamic store creation feature of the smart shop app as a Python/Odoo developer. Also deployed the application on amazon remote servers(EC2) on staging and production environments.

**Skills Used:** Python, odoo, devops, linux, pycharm.

## ACADEMIC RECORD:

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**Tertiary: BACHELORS OF COMPUTER SCIENCE | 2016 | PUCIT-UNIVERSITY OF THE PUNJAB, LAHORE.**

**Major:** Enterprise Application Development(.Net), Mobile Computing(Android).

**Secondary: FSC | 2012 | PUNJAB-COLLEGE, LAHORE.**

**Grade:** A+ (83%).

**Primary: MATRIC | 2010 | PUNJAB SCHOOL, LAHORE.**

**Grade:** A+ (92%).

## ACHIEVEMENTS:

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- Got **5th** position in programming competition 12 PUCIT, Lahore.
- Have won **1st prize** in soft expo(A national level event) held at pucit regarding final year project.
- Python Test Dome certification.
- IBM data science foundations level1 badge.