Abeer Sewak

Software Developer

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Skills Summary

A software engineer with critical skills needed to test, launch, scale and optimize software applications.

- ❖ Experience with Analysis, Design, Development and testing of software.
- ❖ Experience in building web applications using Python, Django, Flask, FastAPI, React, Django Rest Framework, Docker, kubernetes/openshift.
- ❖ Test Driven Development with parameterizing test functions and mocking functionality in tests using pytest
- ❖ Experience with Nginx and Apache to deploy codebases to production.
- ❖ Strong experience building Rest API's using the Django Rest Framework and FastAPI
- ❖ Experience in creating Docker Containers for web apps and dockerizing existing code bases.
- ❖ Experience in working on AWS and its services like AWS EC2, EBS, RDS, S3, ECS etc.
- ❖ Expertise in working with different databases like MySQL, PostgreSQL, SQLite and Good knowledge in using NoSQL databases such as MongoDB.
- ❖ Development Experience in Linux (Ubuntu, CentOS, Debian), Mac OS and Windows.
- ❖ Development Experience using Eclipse IDE with PyDev plugin, VS Code and Sublime Text.

● Python	● AWS	● Postgresql
● Django	● Heroku	● MongoDB
● Flask	● Docker	● SQLAlchemy
● FastAPI	● Kubernetes	● Redis
● React	● Google Analytics	● Celery
● Rest API	● Serverless	● RabbitMQ
● GrahpQL	● Pytest	● Github/Gitlab
● Swagger/OpenAPI	● Selenium	● Powershell
● HTML/CSS/	● Insomnia/Postman	● Linux
● Javascript	● Openshift	● Jenkins

Experience

Bank of America
Dallas, Tx, USA (10/2020 – Present)

Python Developer / Container Engineering

- ❖ Part of the Openshift team at Bank of America, consisting of an internal container engineering team and redhat openshift engineers.
- ❖ Worked on defining container image retention policies in JFrog Artifactory.
- ❖ Helped the bank save up on storage costs by cleaning up the Artifactory docker registries. As a consequence, reducing disk space, clutter and Artifactory performance enhancement.
- ❖ Responsible for building automation tools using Python and Golang for the Kubernetes openshift infrastructure.
- ❖ Worked on chaos engineering to make the openshift platform more fault resilient.
- ❖ Built command line tools and automation software for the internal container engineering team.

Avaana
Houston, Tx, USA (1/2020 – 10/2020)

Python Developer / Full Stack Engineer

- ❖ Building an online shopping web application for the business from scratch, that enables users to sell products online, using Python, Django and React.
- ❖ The application contains various functionalities including user authentication, paginated product web pages, ability to add items to the cart, searching for products in the entire database, checking out, Payment etc
- ❖ Integrated Paypal and Stripe for payment processing.
- ❖ Added functionality for guests to add items to cart and checkout without creating an account, to increase sales.
- ❖ Deployed application to AWS.
- ❖ Centralized logging with Django, Docker and AWS Cloudwatch.
- ❖ GitLab CI for Continuous Integration/Continuous Delivery.
- ❖ Test Driven Development with pytest.
- ❖ Selenium for automated functional end to end testing.

St. Georges Healthcare Inc
Houston, Tx, USA (1/2019 – 1/2020)

Python Developer / Full Stack Engineer

- ❖ Worked on the new revamped website frontend.
- ❖ Wrote python scripts to monitor a website, Send email alerts and reboot servers automatically when required.
- ❖ Installed SSL certificates using 'Let's Encrypt on servers to enable HTTPS.
- ❖ Added AJAX functionality to web site to update elements without page reloads.
- ❖ Docker for containerization of Web Applications and curl, postman/Insomnia for API testing.
- ❖ Built a Customer Relationship Management Application in Python/Django.
- ❖ Pytest for automated unit tests.
- ❖ Selenium for automated end to end functional testing.

Keysight Technologies
Manesar, India (2/2016 – 7/2018)

Python Developer / R&D Engineer

- ❖ Involved in 5 major releases, collaboratively with developers, QA and various business groups developing the Keysight I/O Libraries.
- ❖ Helped develop, maintain and test instrument software that are used by **NASA** and **CERN**
- ❖ Made a Django application with a built in Rest API for the automated testing of the Driver API's for IOLS.
- ❖ Followed strict Agile Methodologies - Participated in Sprint meetings to keep track of project phases and build strategies to meet the business requirements and deadlines.
- ❖ Handled responsibilities of maintenance and automation of the Keysight 'Input Output Library Suite' (IOLS).
- ❖ Used Git for version control to manage the project files and simultaneously kept track of work with other team engineers.
- ❖ Created and documented the entire test plan for IOLS testing on Linux from scratch.
- ❖ Maintained and updated the automation scripts (IOLS install Verifier, Rhino for API Testing etc.)
- ❖ Performed performance testing over various connection protocols of test instruments with IOLS.
- ❖ Used JIRA for bug tracking and issue tracking.
- ❖ Engaged in Monitoring, Configuring, building test beds based on Linux (CentOS and Redhat)

Technologies used - Python, Django, Flask, postgres, React, AWS, HTML, CSS, Javascript, Nginx, Git, Linux, TFS, Jira, Zephyr, Confluence, Pytest

CredXL Pvt. Ltd.
Noida, India (4/2015 – 2/2016)

Python/Django Developer

- ❖ Involved in the Design, development, testing, deployment and maintenance of the website.
- ❖ Responsible for setting up Python REST API framework using Django Rest Framework.
- ❖ Developed front-end and back-end modules using Python on Djano.
- ❖ Used HTML, CSS, BOOTSTRAP, AJAX and JSON for the design and development of the user interface of the website.
- ❖ Developed views and templates with Python and Django's view controller and jinja2 to create a user-friendly web interface.
- ❖ Responsible for debugging and testing the web application.

Huawei Telecommunications
Ahmedabad, India (9/2014 - 2/2015)

Network Engineer

- ❖ Worked on the 4G Vodafone DWDM project to increase bandwidth over existing fiber networks.
- ❖ Heavily involved in migration of network in the Ahmedabad area from 3G to 4G.
- ❖ Created network diagrams for new and existing networks and installed IP and network equipment.

Tutorific Pvt. Ltd.
Noida, India (2/2013 - 8/2013)

Web Development Intern

- ❖ Worked with a team developing a revolutionary new platform that allows educational content owners (publishers, training companies, test prep companies) to deliver a personalized learning experience to their students , based on the concept of "continuous adaptivity".
- ❖ Involved in building a web application, testing the application and deploying it to the cloud.
- ❖ Web stack: Python/Django + Gunicorn + Nginx + PostgreSQL + AWS.
- ❖ For data analysis/machine learning: Python + SciPy + NumPy + matplotlib + pandas.

Open Source Projects

Bowling Scoresheet   Demo   Github
A 10 pin bowling game built using Python/Django and docker with a Rest API support. Over 40 test cases, testing the API, views, models and templates, written in pytest.

Storm Cloud   Demo   Github
An open source cloud music player made using Django. Upload, store, and play all of your music from the cloud. You can manage and listen to your music from any device, anywhere in the world.

CloudBay   Github
An open source ecommerce platform. Among other functionality, users can create their account, add items to their cart and purchase those items using Stripe.

Education

Dayalbagh Educational Institute (2010 - 2014)

B.Tech double major in Computer Science and Mechanical