

Usama Sadiq - Senior Software Engineer

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Information Technology University (ITU), Lahore, Punjab, Pakistan 2014 - 2018

- **BS Computer Science (BSCS)** Graduated with a CGPA of **3.64**

Senior Software Engineer (Arbisoft)

2018 - 2024

Python | Django | ReactJS | Docker | GitHub Actions | Jenkins | AWS

- Software Engineer with 6+ Years of development experience with **Python, Django, React, MySQL, GitHub Actions, Docker, AWS, Kubernetes**
- Responsible for optimizing and resolving high priority backend(Python, Django) and infrastructure (Jenkins, GitHub Actions, AWS) issues.
- Communication with stakeholders, open source contributors and support teams for forming project milestones, maintaining the progress and keeping the project tech stack upgraded to the latest standards.
- Created and maintained tools/scripts to improve the dev experience for other internal/open source developers contributing to the project
- Experienced in building, testing, deploying and monitoring the releases for both internal and open source community
- Experience in migrating the large scale infrastructures from Jenkins/Travis to GitHub Actions/AWS Services
- Experienced with design, development, testing, debugging & rollout of applications using Django/React frameworks
- Experienced in direct client communication and leading Open Source Collaborations

Accomplishments

- Lead the effort of migrating/upgrading the codebase/infrastructure of 10+ services from using Python 3.8 to Python 3.12
 - Updated the codebase and the CI/CD infrastructure along with Dockerfiles of the services to run with Python 3.12
 - Coordinated with Open Source contributors to review and merge their contributions in the project
 - Communicated with all stakeholders to complete the upgrade before the deadline
 - Handled the unplanned obstacles in the upgrade process by contributing to the third party upstream packages as open source contributor
- Supervised & collaborated with the OpenSource Community to upgrade 150+ repos/packages from Django 3.2 to Django 4.2.
 - Created and maintained a tracking dashboard of all the Django dependencies to lead the upgrade process from the front.
 - Reviewed and merged open source contributions from the community.
- Migrated GitHub CI from Travis to GitHub Actions implementing latest GitHub Actions workflows standards
 - Created reusable workflows for the open source community and other development teams within the project
 - Enabled Open Source community using edX to scale/migrate their CI from Circle CI to GitHub Actions
- Migrated the internal CI test runners of the project from Jenkins to AWS self-hosted runners using kubernetes
 - Deprecated the old Jenkins runners based test infrastructure and integrated AWS self-hosted runners with the GitHub CI
 - Setup auto-scaling of the test runners to save runners cost to the organization for testing
- Migrated 8+ major services from using Ansible playbooks to use latest Docker images

- Updated the dev environment to discard the legacy Ansible playbooks based images and updated to use the Docker based images
 - Enabled the dev teams to have the same dev experience on local, stage and production environments.
- Improved Dev Experience for other teams on the project
 - Enforced latest quality standards within the project for all the other dev teams.
 - Wrote Code-mods and reusable bash scripts to be used by other teams within the project to upgrade and maintain their repositories easily.
 - Enabled the overall code quality of the project to stay up-to-date with the latest community standards.