Sumit Kumar Singh

sumit.singh4613@gmail.com

EDUCATION

NIET GREATER NOIDA
BTech in Electronics and Communication
2016-2020

LINKS

Facebook:// **sumitsingh4613**
Github:// **sumit4613**
Gitlab:// **sumit4613**
LinkedIn:// **sumit4613**
Twitter:// **sumitsingh4613**

SKILLS

Backend Development, DevOps

LANGUAGES
Python

TOOLS/LIBRARIES/DATABASES
Git • Github Actions • AWS • Docker • PostgreSQL

FRAMEWORKS
Django • Django Rest Framework • Flask • Bootstrap

OS
Linux/Unix • Windows

ORGANIZATIONS

101LOOP
• Maintainer

CODETRONICS
• Contributor

EXPERIENCE

CARTA HEALTHCARE | Backend Engineer
January 2021 - Present
- Worked on enterprise integration - achieved NCDR's CathPCI Certification in record time.
- Worked with pluggy to build plugin based functionality for certification purpose.
- Optimised API to reduce response time by 80%.
- Increased code coverage of code-base by 30%.

CIVIL MACHINES TECHNOLOGIES PVT LTD | Research Developer
September 2019 - December 2020
Day-to-day responsibilities include but not limited to the following:
- Optimised APIs on already built product. Reduced API response time for 2.5 seconds to 250 ms.
- Reduced computational complexities to linear complexity in different portion of codebase.
- Optimised Django's ORM queries to reduce computational time by reducing query complexity from 2n+1 to linear using Django ORM features. For instance, in an API reduced 1250+ queries to 3 queries.
- Automated deployments of the products using Github Actions.
- Established test case structure and increased coverage from 0% to 93%, mostly using e2e test cases. Avoided unit test because of time constraint.

XPLORYO | Backend Developer Intern
May 2019 - July 2019
- Worked on the authentication system.
- Build more than 35 scalabale REST API's using Django Rest Framework.
- Worked with Docker to containerize the application.

PROJECTS

SWEET2TH
An Ecommerce marketplace for local bakeries
- Resolved scalability problems with their APIs, some of their APIs were taking more than 10s to load. Optimised those APIs to load under less than a 1s.
- Integrated Github Actions for CI/CD.
- Integrated async task queue to handle processes like sending emails.

DRF-USER (CURRENT MAINTAINER) | Github
DRF User is a Django app that overrides default user app to provide additional attributes and functionalities.
- Written extensive test cases to improve test suite.Increased code coverage from 0% to 92%.
- Restructured whole project to follow best practices from python and django.
- Winner of the **PyCharm's Project of the Decade** competition.

AWARDS AND DISTINCTION

- Finalist in **SIH 2020** organised by **Govt. Of India**.
- Mentored new contributors for DRF-USER during Devsprints at PyCon India 2020.