

Nilay Shah

Software Engineer


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Skills

Languages & Frameworks

 Python  SQL  Django  DRF  FastAPI (Basics)  JS (Basics)

Databases

 MongoDB  MySQL  Elastic Search (Basics)  Snowflake (Basics)

DevOps

 Kubernetes  Argo  Docker  Jenkins  Grafana  Gunicorn

Tools & Technologies

 Copilot  Git  Postman  AWS  Kibana  Celery  Superset

Experience



Innovaccer Analytics

SDE - II

Jan '23 - Present

- **Log Volume Optimisation:** Led the initiative to define SOPs for log structure for different log levels & types. Designed internal **py-json-logger internal package** to manage patterns of existing logs across apps managed in python related frameworks. We were able to achieve **20% reduction in log volumes** and **12% reduction in infrastructure** costs.
- **Multi Tenant:** Integrated multi-tenant architecture, to enable multiple customers to use the same instance of the software. This involved creating a **db-router package** to manage customer configs at app level. This effort led to a **30% reduction in infra costs**.
- **Optimisation And Refactoring Of Existing APIs:** Designed load testing flow using **locust**. Optimized and refactored existing APIs using Django REST Framework's core concepts, developing thread safe code and applying **gunicorn** worker-thread configuration. This effort led to a remarkable performance improvement (**5x faster**) and **70% reduction in infra costing** by applying k8s core concepts for pod autoscaling to optimize CPU core and throttling and memory utilization, showcasing my expertise in API development and code refinement.
- **Data Injection Tool:** Integrated event driven sequential data writes to a centralized EMR database supporting HL7 and FHIR data standards, using Celery async concepts and queuing mechanisms to maintain sequence flow for referral creation and updation events. Implemented **error handling retry mechanism, event triggers and monitoring tool**. Currently the system is able to manage **up to 5 million write events/day**.



Innovaccer Analytics

SDE - I

Aug '21 - Dec '22

- **GA Release & Config Console:** Redesigned project to enable GA release across customers and developed config management tool, enabling administrators to configure feature requirements, incorporating custom logic based on configurations at runtime. By GA release, we were able to reduce **30% P0 & P1 incidents**, and achieving stable release.
- **API Automation & Load Testing Platform:** Designed API automation testing across diverse product workflows, achieving **coverage of over 90% of repository code**. Employed **Newman (.js)** for test execution and **JMeter** for performance testing. Established pipelines in **Jenkins** and **GitLab runners** to automate jobs at scheduled intervals and after pull request creation. This effort led to a **25% reduction in production incidents**.



Ace Enterprise Solutions Ltd

SDE - I

May '20 - June '21

- **ERP(Enterprise Resource Planning) Software Module:** Handled backend for Trading module to manage all sales, purchases, dispatches, outwards and similar operations to handle supply of goods in warehouses. Built a billing system for generation of audit and tally reports to keep a periodic track of overall purchase and sales (completed and pending orders) of goods for each client for billing purposes.
- **DAP:** Built DAP(Data activation platform) to populate existing data of a customer from **ElasticSearch** indexes to Appliaction's storage async python scripts in **FastAPI** and data mapper logics using **Pydentic models**.

Education



Dhirubhai Ambani Institute of Information & Communication Technology (DA-IICT)

B.Tech (ICT) • CGPA: 7.22

June '16 - May '20

Awards & Achievements

Leading by example award [May '22](#), [May '24](#)
MVP award [July '23](#), [Dec '23](#)

Champion award [Dec '21](#)
SPOT award [April '23](#), [May '24](#)